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**SUPPLEMENT RCRA FACILITY INVESTIGATION REPORT /  
SOIL REMEDIAL ACTION REPORT**

**ORTHO-CLINICAL DIAGNOSTICS  
RARITAN, NEW JERSEY**

**Volume 1 of 3  
Text / Tables / Figures**

*Prepared for:*

**Ortho-Clinical Diagnostics  
1001 US Route 202  
Raritan, NJ 08869**

*Prepared by:*

**Langan Engineering & Environmental Services, Inc.  
P.O. Box 1569  
Doylestown, Pennsylvania 18901**

**1 December 2008**

**3568401**

**NJ Certificate of Authorization No. 24GA27996400**

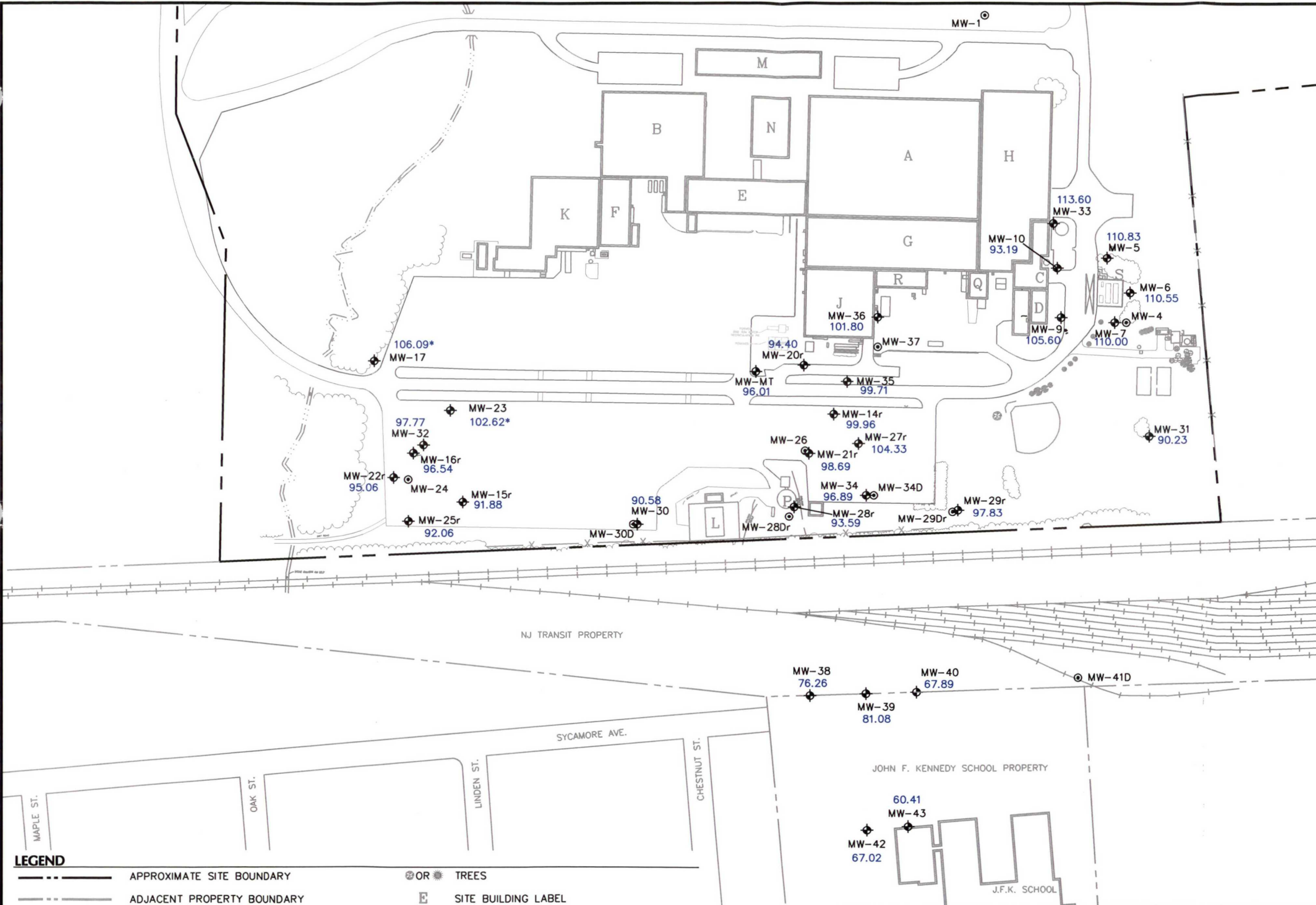


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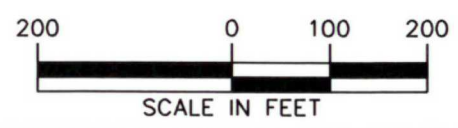


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LEGEND	
	APPROXIMATE SITE BOUNDARY
	ADJACENT PROPERTY BOUNDARY
	FENCE LINE
	EDGE OF ASPHALT PAVEMENT
	DRAINAGE DITCH
	GUARD RAIL
	TREE LINE
	TREES
	SITE BUILDING LABEL
	EXISTING SHALLOW MONITORING WELL
	EXISTING DEEP MONITORING WELL
91.88	POTENTIOMETRIC SURFACE ELEVATION (FEET)
102.62*	WATER LEVEL MAY HAVE BEEN AFFECTED BY STORM WATER INFILTRATION

**REFERENCE**  
1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO CLINICAL DIAGNOSTICS.



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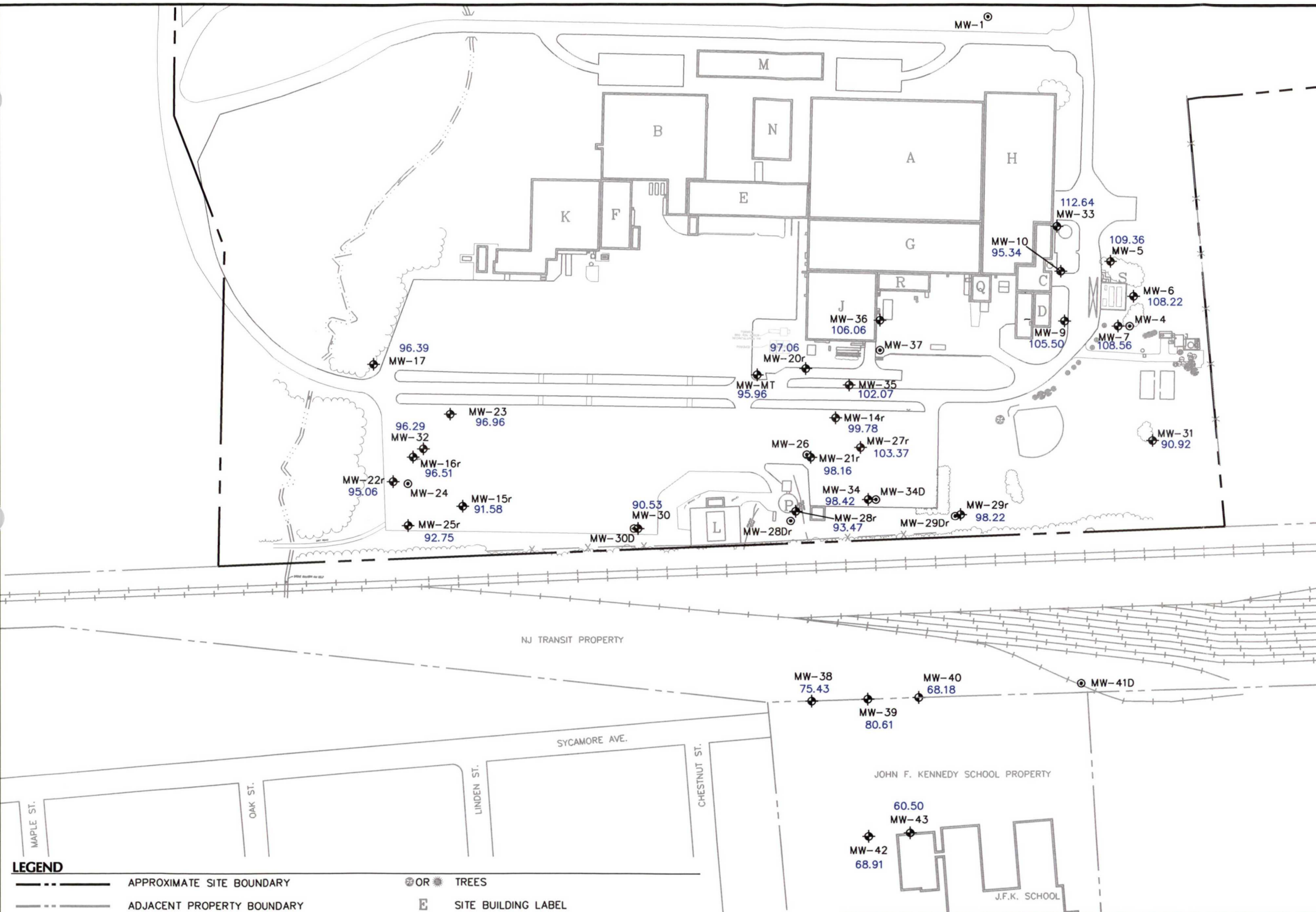
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NEW JERSEY   PENNSYLVANIA   NEW YORK   CONNECTICUT   FLORIDA   NEVADA

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POTENTIOMETRIC SURFACE ELEVATIONS FOR SHALLOW MONITORING WELLS (11-26-07)			
ORTHO - CLINICAL DIAGNOSTICS, RARITAN, NEW JERSEY			
Project No.	Date	Scale	Figure
3568401	01/09/08	1" = 200'	3-1



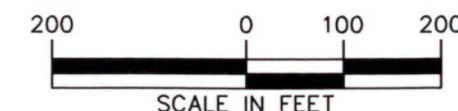


# REFERENCE

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## LEGEND

	APPROXIMATE SITE BOUNDARY		TREES
	ADJACENT PROPERTY BOUNDARY		SITE BUILDING LABEL
	FENCE LINE		EXISTING SHALLOW MONITORING WELL
	EDGE OF ASPHALT PAVEMENT		EXISTING DEEP MONITORING WELL
	DRAINAGE DITCH		POTENTIOMETRIC SURFACE ELEVATION (FEET)
	GUARD RAIL		
	TREE LINE		



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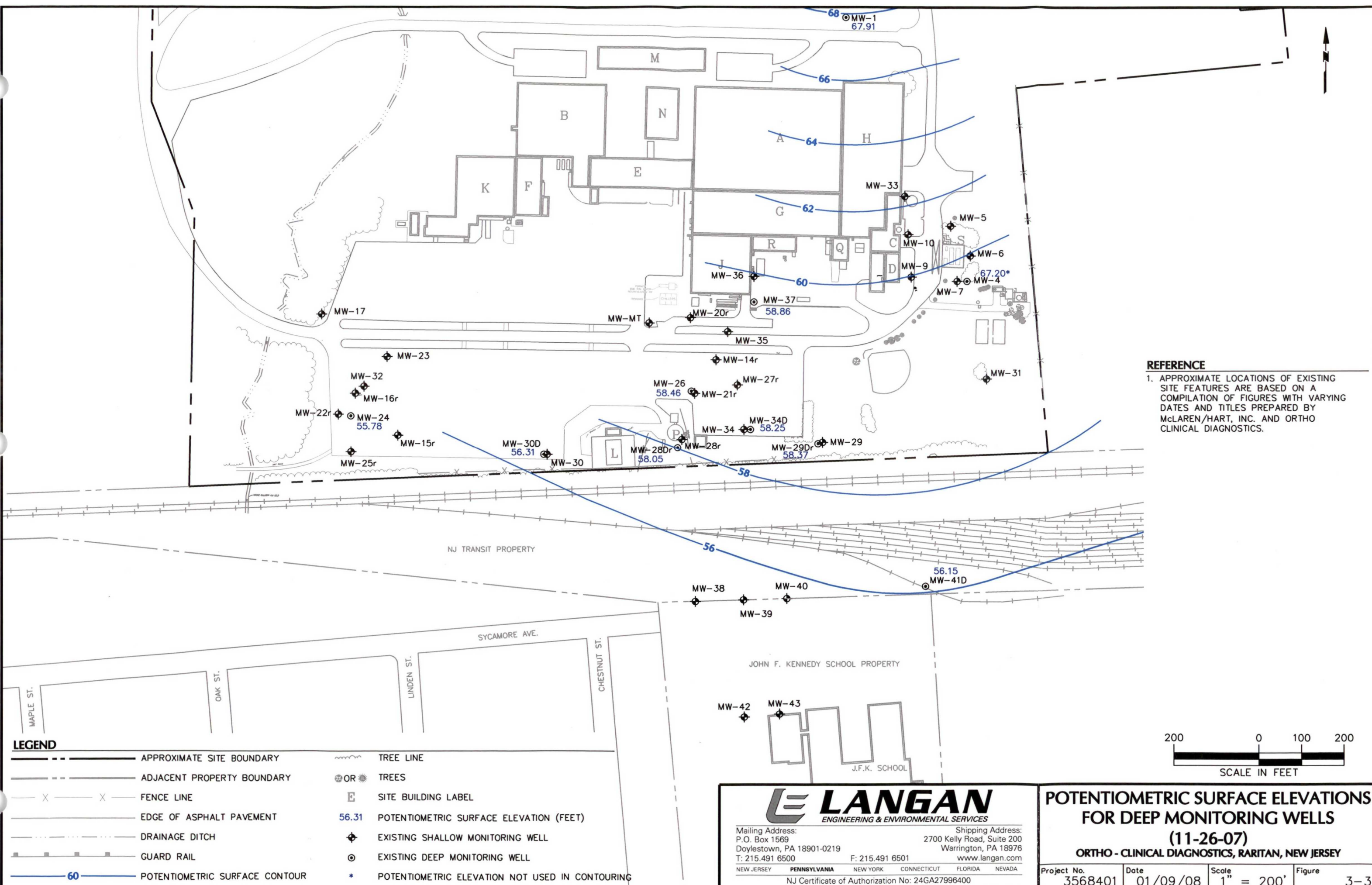
## POTENTIOMETRIC SURFACE ELEVATIONS FOR SHALLOW MONITORING WELLS (9-3-08)

ORTHO - CLINICAL DIAGNOSTICS, RARITAN, NEW JERSEY

Project No.	Date	Scale	Figure
3568401	09/23/08	1" = 200'	3-2



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**REFERENCE**  
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- LEGEND**
- |     |                                |       |   |
|-----|--------------------------------|-------|---|
| --- | APPROXIMATE SITE BOUNDARY      | ~     | TREE LINE                                       |
| --- | ADJACENT PROPERTY BOUNDARY     | OR    | TREES   |
| X X | FENCE LINE                     | E     | SITE BUILDING LABEL                             |
| --- | EDGE OF ASPHALT PAVEMENT       | 56.31 | POTENTIOMETRIC SURFACE ELEVATION (FEET)         |
| --- | DRAINAGE DITCH                 | +     | EXISTING SHALLOW MONITORING WELL                |
| --- | GUARD RAIL                     | o     | EXISTING DEEP MONITORING WELL                   |
| 60  | POTENTIOMETRIC SURFACE CONTOUR | *     | POTENTIOMETRIC ELEVATION NOT USED IN CONTOURING |

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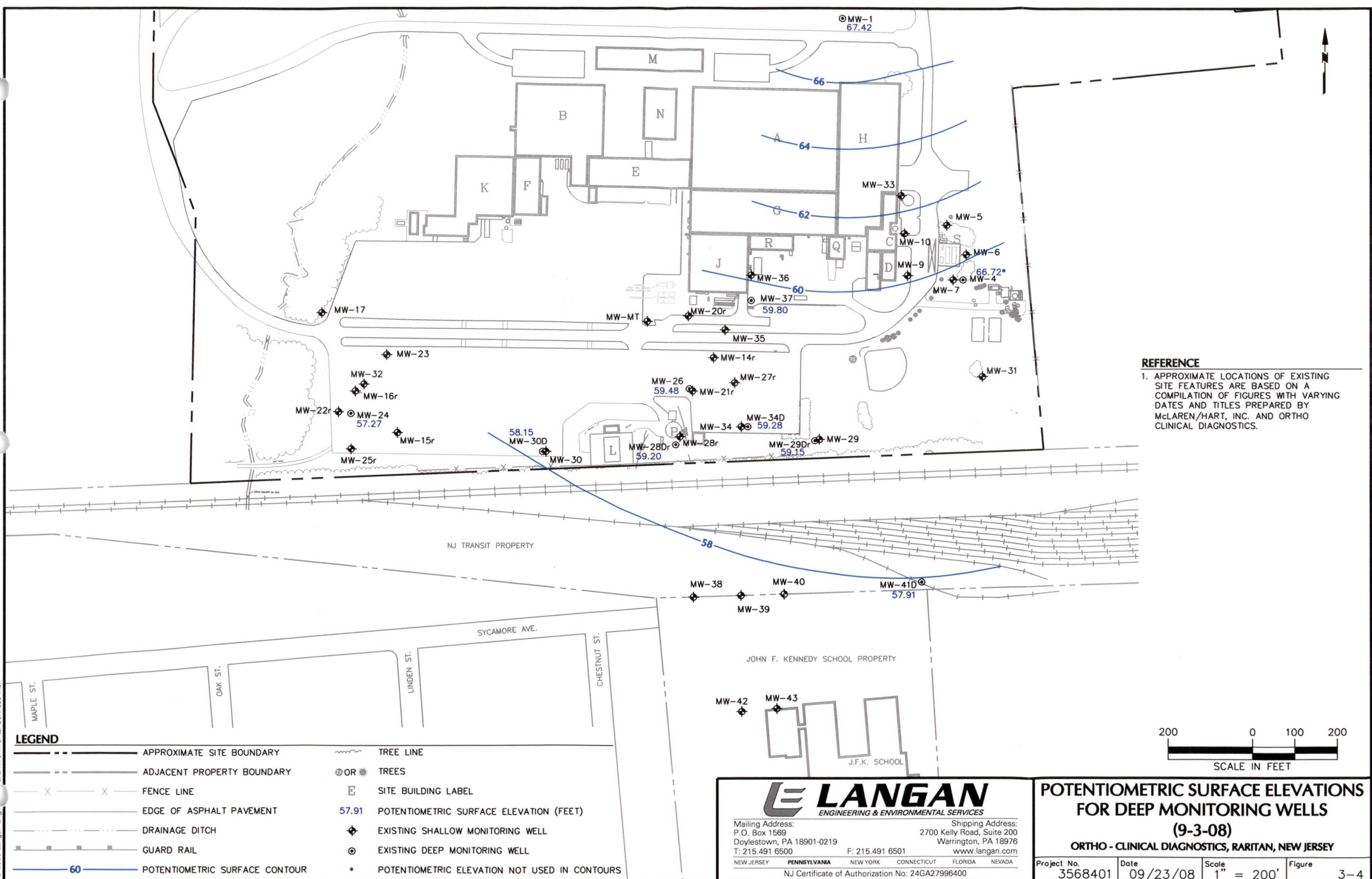
NJ Certificate of Authorization No: 24GA27996400

**POTENTIOMETRIC SURFACE ELEVATIONS FOR DEEP MONITORING WELLS**  
**(11-26-07)**  
**ORTHO - CLINICAL DIAGNOSTICS, RARITAN, NEW JERSEY**

Project No. 3568401	Date 01/09/08	Scale 1" = 200'	Figure 3-3
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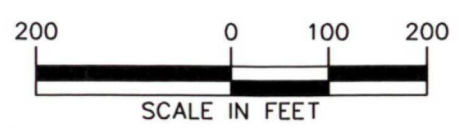


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LEGEND	
	APPROXIMATE SITE BOUNDARY
	ADJACENT PROPERTY BOUNDARY
	FENCE LINE
	EDGE OF ASPHALT PAVEMENT
	DRAINAGE DITCH
	GUARD RAIL
	POTENTIOMETRIC SURFACE CONTOUR
	TREE LINE
	TREES
	SITE BUILDING LABEL
	POTENTIOMETRIC SURFACE ELEVATION (FEET)
	EXISTING SHALLOW MONITORING WELL
	EXISTING DEEP MONITORING WELL
	POTENTIOMETRIC ELEVATION NOT USED IN CONTOURS



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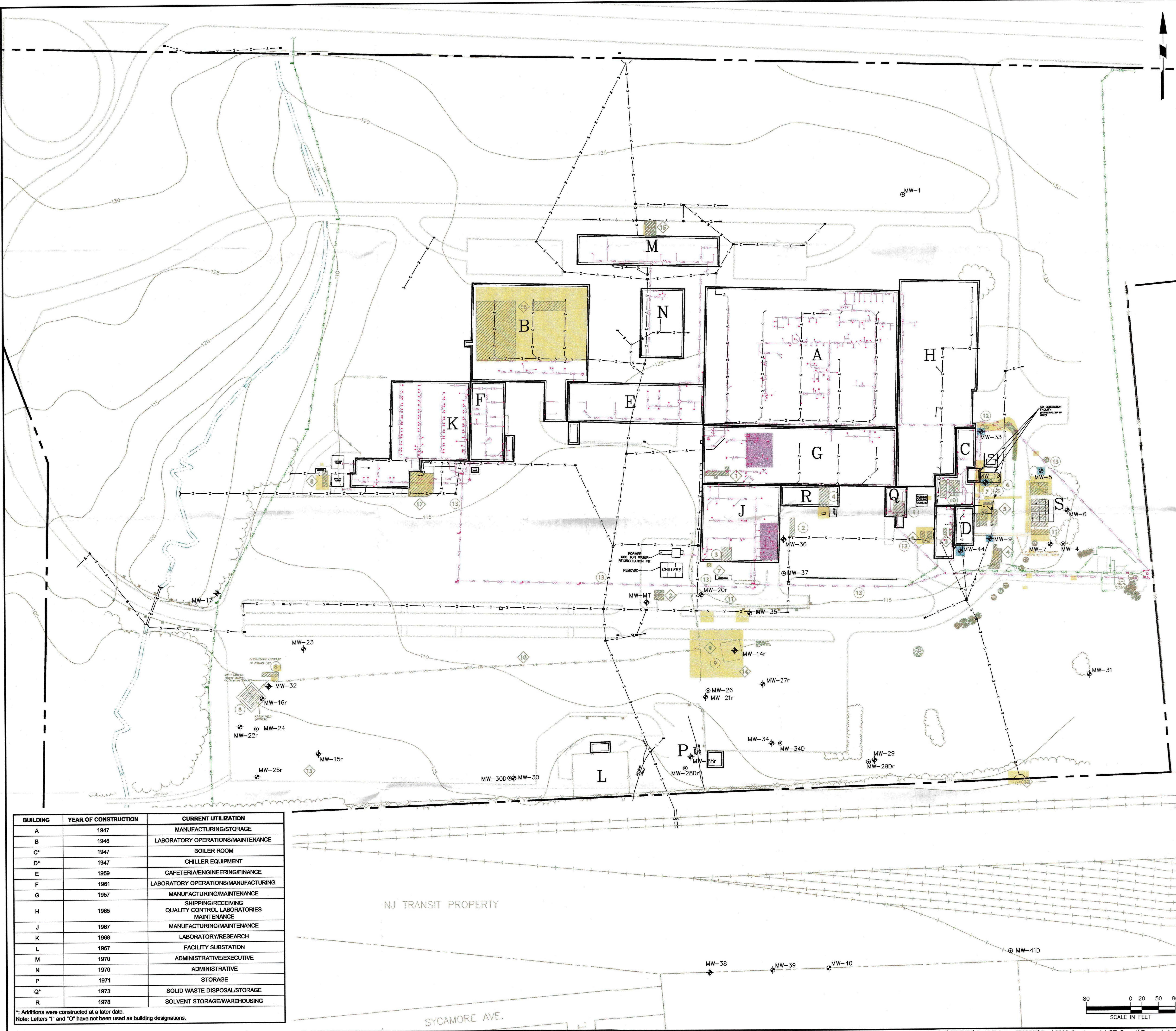
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NJ Certificate of Authorization No: 24GA27996400

POTENTIOMETRIC SURFACE ELEVATIONS FOR DEEP MONITORING WELLS (9-3-08)			
ORTHO - CLINICAL DIAGNOSTICS, RARITAN, NEW JERSEY			
Project No.	Date	Scale	Figure
3568401	09/23/08	1" = 200'	3-4





SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
1	INCINERATOR (REMOVED)	1	SOIL IN BASEMENT OF BUILDING G
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
3	CONTAINER STORAGE AREA	3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	CONTAINER STORAGE AREA	4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	6	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	7	750-GALLON NO.2 FUEL OIL UST (REMOVED)
8	FORMER SOUTHWEST LEACH FIELD/ 10,000-GALLON WASTE SOLVENT UST (REMOVED)	8	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
9	FORMER NORTHEAST LEACH FIELD	9	THREE WASTE SOLVENT USTs (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)	10	LEACH FIELD SEWER LINE
11	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	11	CHLOROFORM MW-20
12	550-GALLON GASOLINE UST (REMOVED)	12	BUILDING D FLOOR DRAIN
13	PROCESS/SANITARY SEWER LINE SYSTEM	13	DIRT TURN AROUND
* LOCATED IN BASEMENT		14	AERIAL PHOTOGRAPH ANOMALY
** REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL ASTs		15	ETHYLENE GLYCOL RELEASE AT BUILDING M
		16	SOIL IN BUILDING B BASEMENT
		17	BUILDING K ENTRANCE

- LEGEND**
- EXISTING SHALLOW MONITORING WELL
  - EXISTING DEEP MONITORING WELL
  - SEALED MONITORING WELL/PIEZOMETER
  - AREA OF CONCERN (AOC) DESIGNATION
  - SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
  - LOCATION OF SWMU OR AOC
  - SUPPLEMENTAL RFI SOIL INVESTIGATION AREA
  - SUPPLEMENTAL RFI GROUNDWATER INVESTIGATION AREA
  - SUPPLEMENTAL RFI VAPOR INTRUSION INVESTIGATION AREA
  - BELOW GROUND SURFACE SANITARY SEWER LINE (SWMU-13)
  - BELOW GROUND SURFACE SANITARY SEWER LINE
  - STORM SEWER
  - APPROXIMATE SITE BOUNDARY
  - FENCE LINE
  - EDGE OF ASPHALT PAVEMENT
  - SURFACE CONTOUR ELEVATION
  - DRAINAGE DITCH
  - GUARD RAIL
  - TREE LINE
  - TREES
  - D SITE BUILDING LABEL

- REFERENCES**
- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY MCLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.
  - APPROXIMATE EXTENT OF PARCEL BOUNDARY BASED ON SOMERSET COUNTY GEOGRAPHICAL INFORMATION SYSTEM (GIS) DIGITAL DATASET.
  - DIGITAL ORTHOPHOTOGRAPHY IN STATE PLANE NAD83 COORDINATES, U.S. SURVEY FEET CAPTURED FEBRUARY-APRIL, 2002 PUBLISHED BY THE STATE OF NEW JERSEY, OFFICE OF INFORMATION TECHNOLOGY WAS UTILIZED IN RECTIFYING EXISTING FEATURES TO THE STATE PLANE NAD 83 COORDINATE SYSTEM.
  - THE EXACT LOCATION OF MW-2 IS UNKNOWN. MW-2 APPEARS TO HAVE BEEN PAVED OVER AFTER IT WAS SEALED.

BUILDING	YEAR OF CONSTRUCTION	CURRENT UTILIZATION
A	1947	MANUFACTURING/STORAGE
B	1946	LABORATORY OPERATIONS/MAINTENANCE
C*	1947	BOILER ROOM
D*	1947	CHILLER EQUIPMENT
E	1959	CAFETERIA/ENGINEERING/FINANCE
F	1961	LABORATORY OPERATIONS/MANUFACTURING
G	1957	MANUFACTURING/MAINTENANCE
H	1965	SHIPPING/RECEIVING QUALITY CONTROL LABORATORIES MAINTENANCE
J	1967	MANUFACTURING/MAINTENANCE
K	1968	LABORATORY/RESEARCH
L	1967	FACILITY SUBSTATION
M	1970	ADMINISTRATIVE/EXECUTIVE
N	1970	ADMINISTRATIVE
P	1971	STORAGE
Q*	1973	SOLID WASTE DISPOSAL/STORAGE
R	1978	SOLVENT STORAGE/WAREHOUSING

\*: Additions were constructed at a later date.  
Note: Letters "I" and "O" have not been used as building designations.

Project

**ORTHO-CLINICAL DIAGNOSTICS**

RARITAN NEW JERSEY

Drawing Title

**AREAS INCLUDED IN SUPPLEMENTAL RCRA FACILITY INVESTIGATION**

Project No.

3568401

Date

10/29/08

Scale

1" = 80'

Drn. By

SK

Chkd. By

RL

Date

Description

No.

Revisions

**LANGAN**

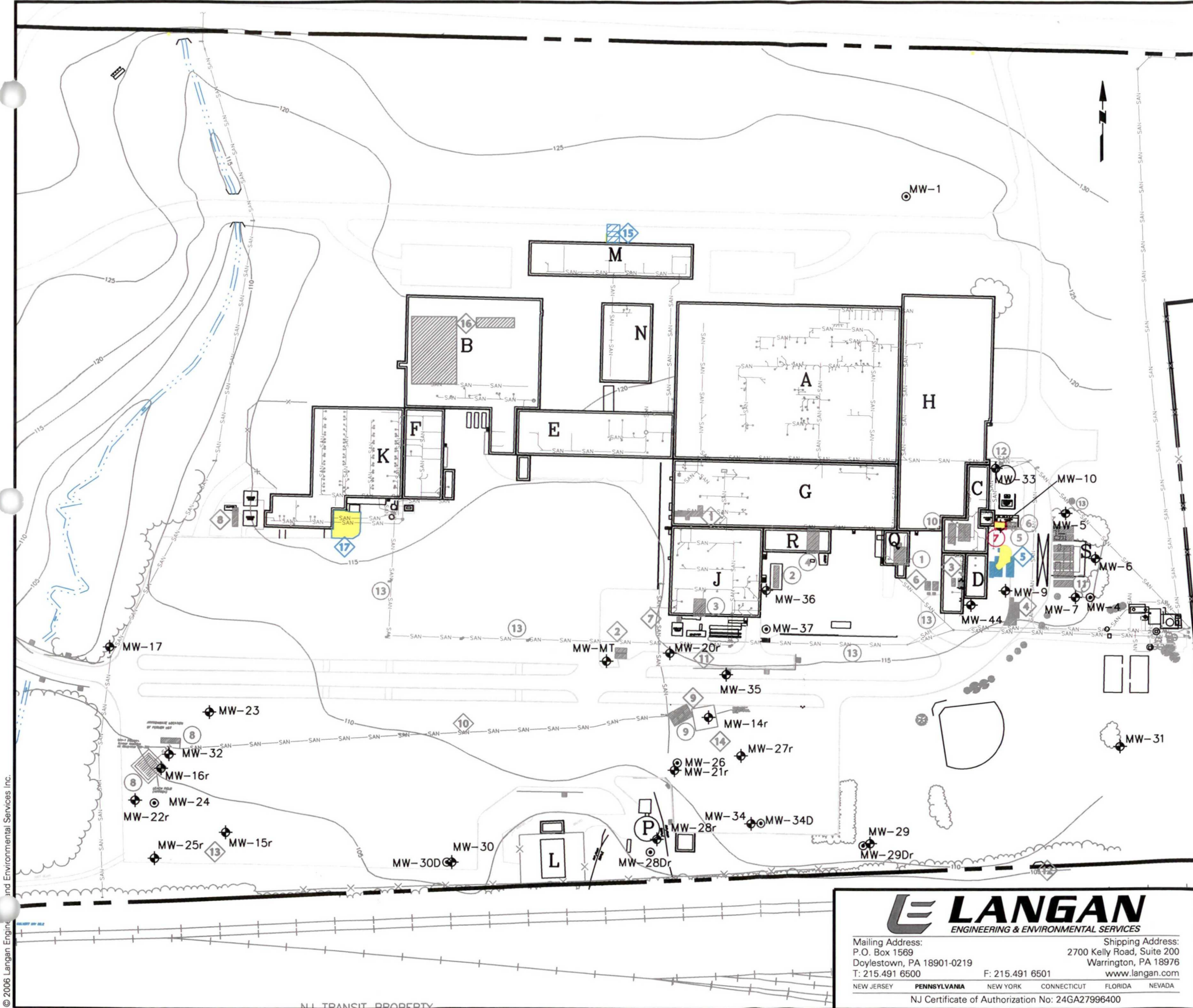
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**LEGEND**

EXISTING SHALLOW MONITORING WELL

EXISTING DEEP MONITORING WELL

AREA OF CONCERN (AOC) DESIGNATION

SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION

LOCATION OF SWMU

LOCATION OF AOC

SUPPLEMENTAL RFI SOIL REMEDIAL ACTION AREA (2006-2008)

BELOW GROUND SURFACE SANITARY SEWER LINE

APPROXIMATE SITE BOUNDARY

FENCE LINE

EDGE OF ASPHALT PAVEMENT

SURFACE CONTOUR ELEVATION

DRAINAGE DITCH

GUARD RAIL

TREE LINE

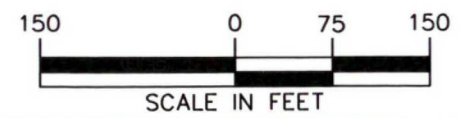
TREES

SITE BUILDING LABEL

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SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
1	INCINERATOR (REMOVED)	1	SOIL IN BASEMENT OF BUILDING G
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
3	CONTAINER STORAGE AREA	3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	CONTAINER STORAGE AREA	4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)	6	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	7	750-GALLON NO.2 FUEL OIL UST (REMOVED)
8	FORMER SOUTHWEST LEACH FIELD/10,000-GALLON WASTE SOLVENT UST (REMOVED)	8	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
9	FORMER NORTHEAST LEACH FIELD	9	THREE WASTE SOLVENT USTs (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)	10	LEACH FIELD SEWER LINE
11	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	11	CHLOROFORM MW-20
12	550-GALLON GASOLINE UST (REMOVED)	12	BUILDING D FLOOR DRAIN
13	PROCESS/SANITARY SEWER LINE SYSTEM	13	DIRT TURN AROUND
* LOCATED IN BASEMENT		14	AERIAL PHOTOGRAPH ANOMALY
** REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL ASTs		15	ETHYLENE GLYCOL RELEASE AT BUILDING M
		16	SOIL IN BUILDING B BASEMENT
		17	BUILDING K ENTRANCE



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NEW JERSEY

PENNSYLVANIA

NEW YORK

CONNECTICUT

FLORIDA

NEVADA

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Project

AREAS OF COMPLETED SOIL REMEDIAL ACTIONS (2006-2008)

ORTHO-CLINICAL DIAGNOSTICS

RARITAN

NEW JERSEY

Project No.  
3568401

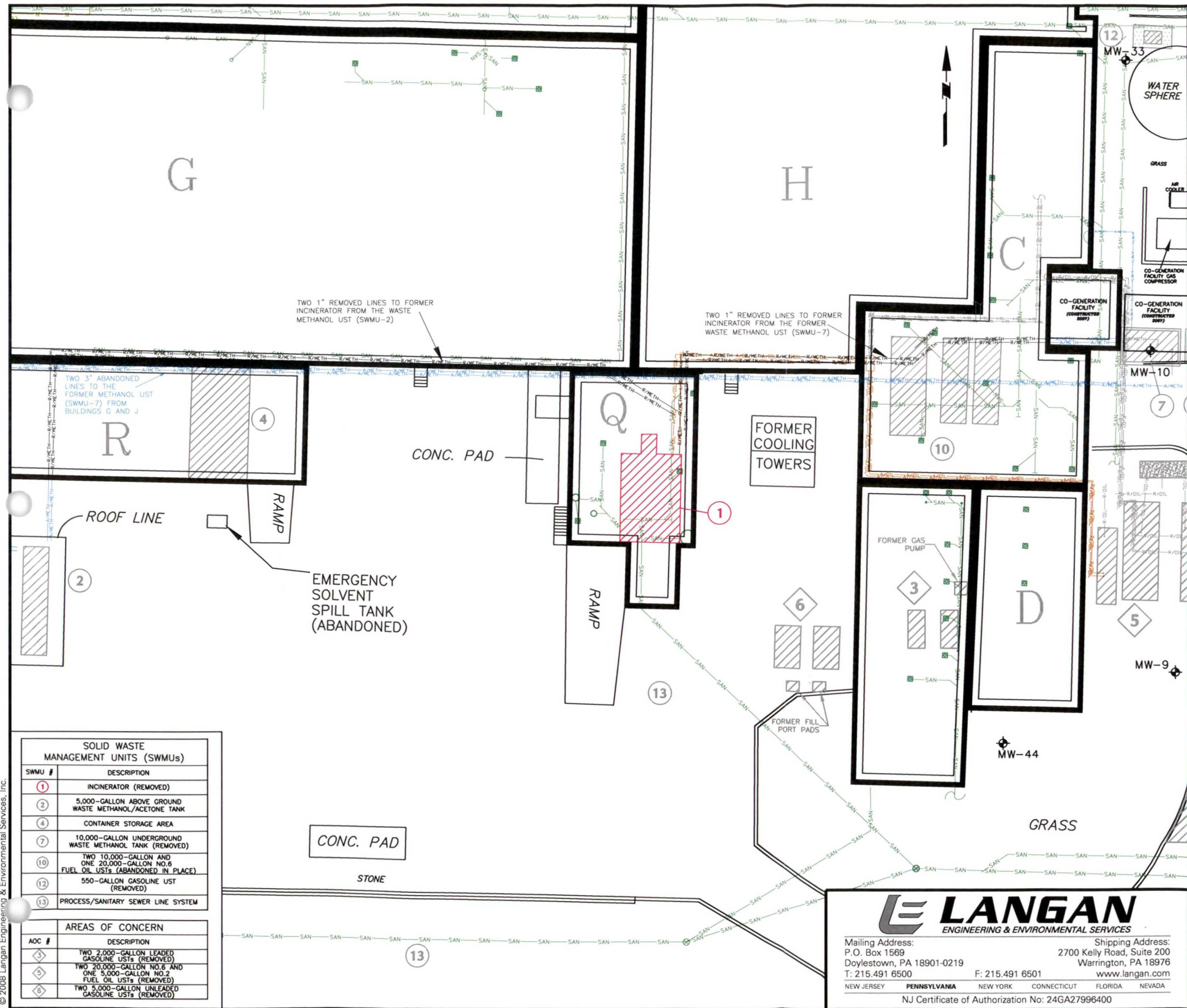
Date  
11/04/08

Scale  
1" = 150'

Figure  
4-2

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**LEGEND**

SAN

SAN

SAN

Below Grade Sanitary Sewer Line

A/METH

A/METH

A/METH

Abandoned Below Grade Waste Methanol Supply Line

R/METH

R/METH

R/METH

Removed Below Grade Waste Methanol Supply Line

R/METH

R/METH

R/METH

Removed Above Grade Waste Methanol Supply Line

R/OIL

R/OIL

R/OIL

Removed Below Grade Fuel Oil Supply Line

A/OIL

A/OIL

A/OIL

Abandoned Below Grade Fuel Oil Supply Line

Existing Shallow Monitoring Well

Sanitary Sewer Floor Drain

Sanitary Sewer Clean Out

Area of Concern (AOC) Designation

Solid Waste Management Unit (SWMU) Designation

Location of SWMU

Location of AOC

Edge of Asphalt Pavement

Site Building Label

**REFERENCES**  
1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

30

0

15

30

SCALE IN FEET

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NEVADA

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Project

LAYOUT OF FORMER INCINERATOR (SWMU-1)

ORTHO-CLINICAL DIAGNOSTICS

RARITAN

NEW JERSEY

Project No.

3568401

Date

11/06/08

Scale

1" = 30'

Figure

6-1

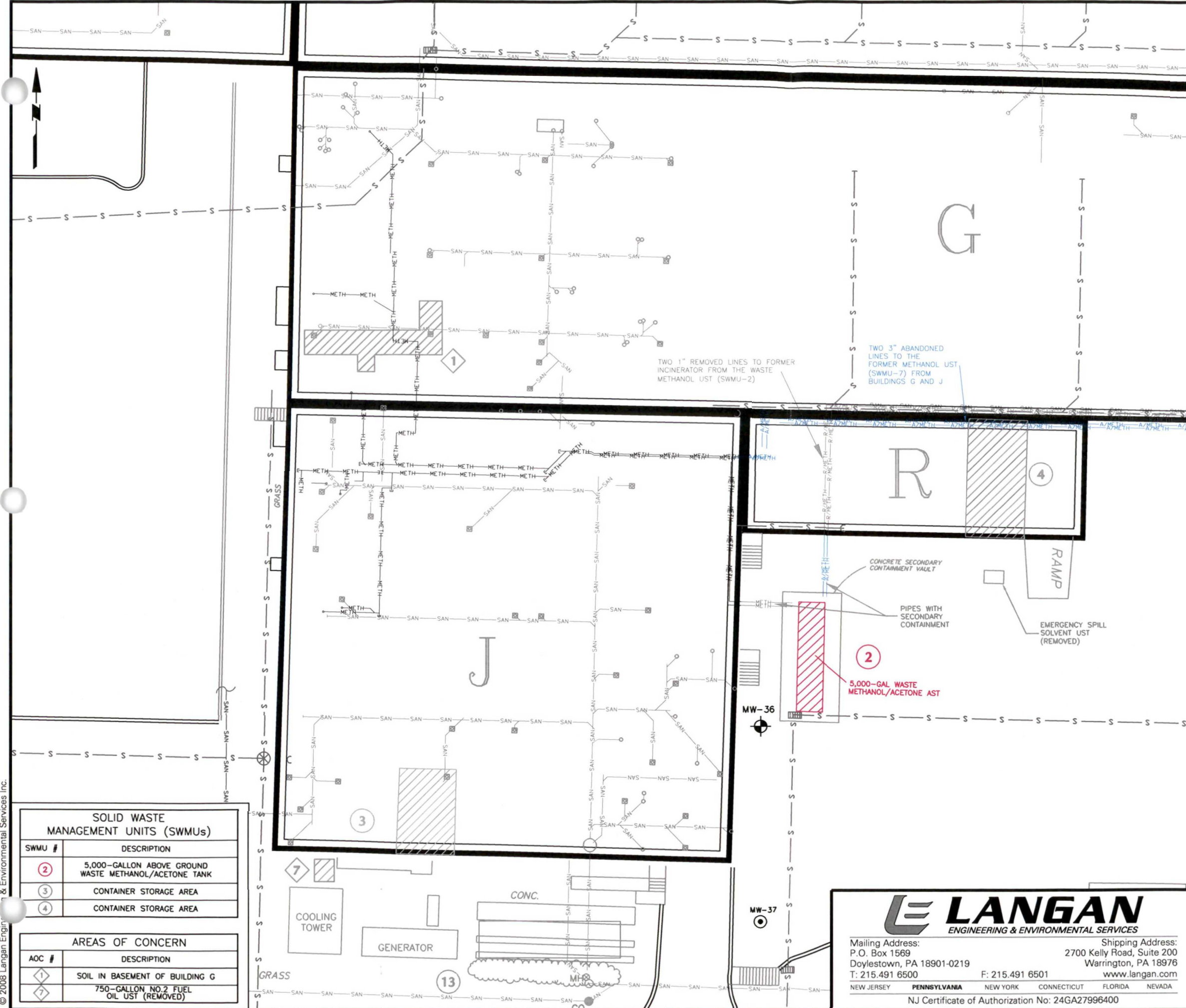
SWMU #	DESCRIPTION
1	INCINERATOR (REMOVED)
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK
4	CONTAINER STORAGE AREA
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)
12	550-GALLON GASOLINE UST (REMOVED)
13	PROCESS/SANITARY SEWER LINE SYSTEM

AOC #	DESCRIPTION
3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)

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Filename: Q:\Data\3568401\Cadd Data - 3568401\Draw\2008 Supplemental RFI Report\Figure 6-1\_SWMU 1\_090408.dwg Date: 11/30/2008 Time: 14:24 User: shresdev Style Table: Langan.stb Layout: B Size Sheet (Bottom)





LEGEND

SAN

SAN

S

A/METH

METH

METH

R/METH

BELOW GRADE PROCESS/SANITARY SEWER LINE

BELOW GRADE STORM SEWER WITH CATCH BASIN

ABANDONED BELOW GRADE WASTE METHANOL SUPPLY LINE

CURRENT ABOVE GRADE WASTE METHANOL SUPPLY LINE

CURRENT BELOW GRADE WASTE METHANOL SUPPLY LINE

REMOVED ABOVE GRADE WASTE METHANOL SUPPLY LINE

EXISTING SHALLOW MONITORING WELL

EXISTING DEEP MONITORING WELL

SANITARY SEWER FLOOR DRAIN

SANITARY SEWER CLEAN OUT OR RISER

AREA OF CONCERN (AOC) DESIGNATION

SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION

AREA OF CONCERN

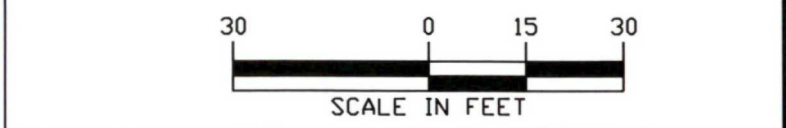
SOLID WASTE MANAGEMENT UNIT

EDGE OF ASPHALT PAVEMENT

SITE BUILDING LABEL

REFERENCES

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SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK
3	CONTAINER STORAGE AREA
4	CONTAINER STORAGE AREA

AREAS OF CONCERN	
AOC #	DESCRIPTION
1	SOIL IN BASEMENT OF BUILDING G
7	750-GALLON NO.2 FUEL OIL UST (REMOVED)

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Project

5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK (SWMU-2)

ORTHO-CLINICAL DIAGNOSTICS

RARITAN NEW JERSEY

Project No. 3568401

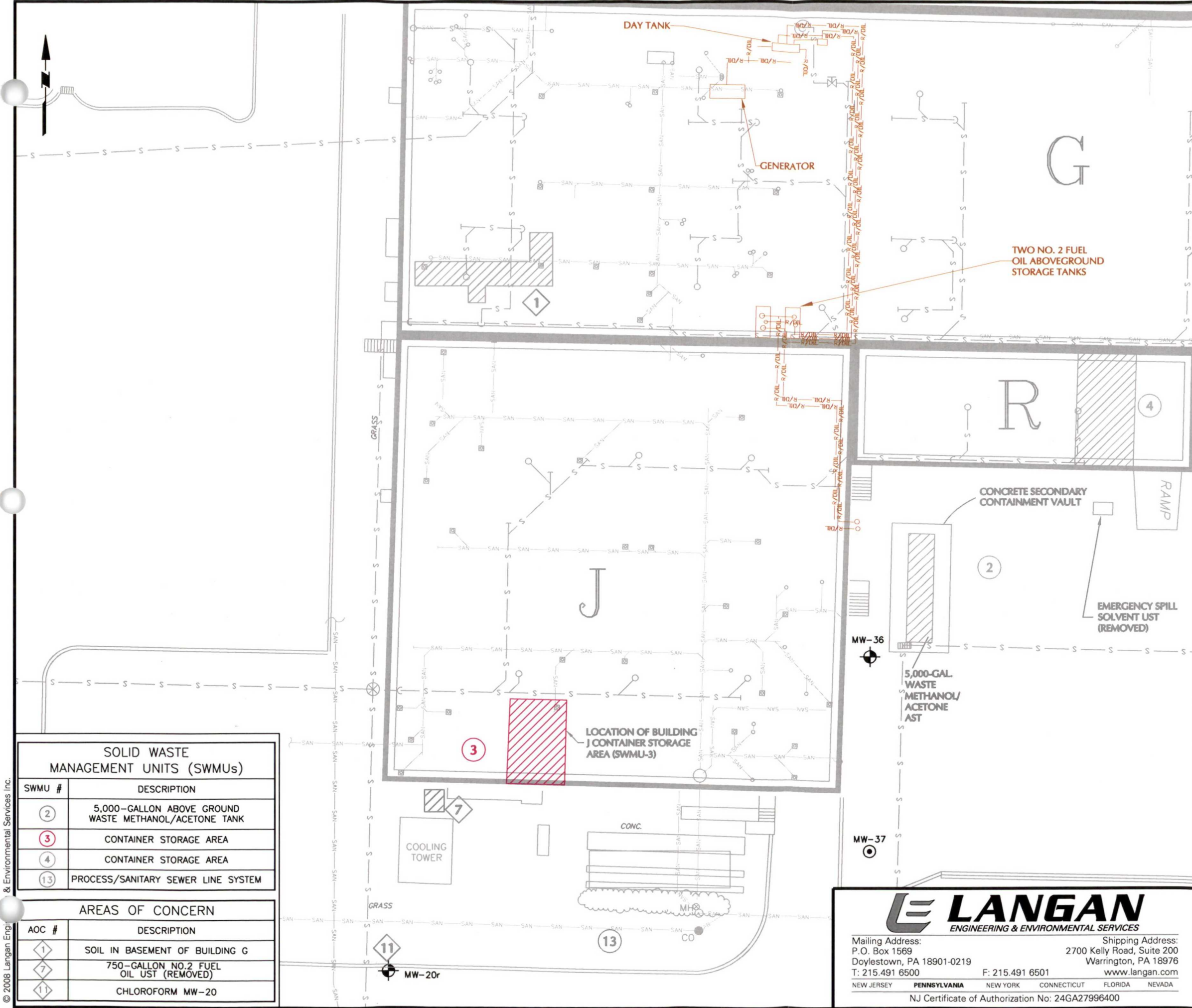
Date 11/06/08

Scale 1" = 30'

Figure 6-2

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LEGEND

SAN

S

R/OIL

FLOOR DRAIN

CLEANOUT OR RISER

EXISTING SHALLOW MONITORING WELL

EXISTING DEEP MONITORING WELL

23

7

LOCATION OF SWMU/AOC

EDGE OF ASPHALT PAVEMENT

J

UST

AST

BELOW GROUND SURFACE SANITARY SEWER

STORM SEWER WITH CATCH BASIN

ABOVE GROUND SURFACE FUEL OIL SUPPLY LINE (REMOVED)

FLOOR DRAIN

CLEANOUT OR RISER

EXISTING SHALLOW MONITORING WELL

EXISTING DEEP MONITORING WELL

SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION

AREA OF CONCERN (AOC) DESIGNATION

LOCATION OF SWMU/AOC

EDGE OF ASPHALT PAVEMENT

SITE BUILDING LABEL

UNDERGROUND STORAGE TANK

ABOVEGROUND STORAGE TANK

REFERENCE

1. APPROXIMATE LOCATIONS OF EXISTING AND FORMER SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATE AND TITLES PREPARED BY RECON SYSTEMS INC., McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK
3	CONTAINER STORAGE AREA
4	CONTAINER STORAGE AREA
13	PROCESS/SANITARY SEWER LINE SYSTEM

AREAS OF CONCERN	
AOC #	DESCRIPTION
1	SOIL IN BASEMENT OF BUILDING G
7	750-GALLON NO.2 FUEL OIL UST (REMOVED)
11	CHLOROFORM MW-20

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PENNSYLVANIA

NEW YORK

CONNECTICUT

FLORIDA

NEVADA

NJ Certificate of Authorization No: 24GA27996400

Project

CONTAINER STORAGE AREA-BUILDING J BASEMENT (SWMU-3)

ORTHO-CLINICAL DIAGNOSTICS

RARITAN

NEW JERSEY

Project No.

3568401

Date

11/10/08

Scale

1" = 30'

Figure

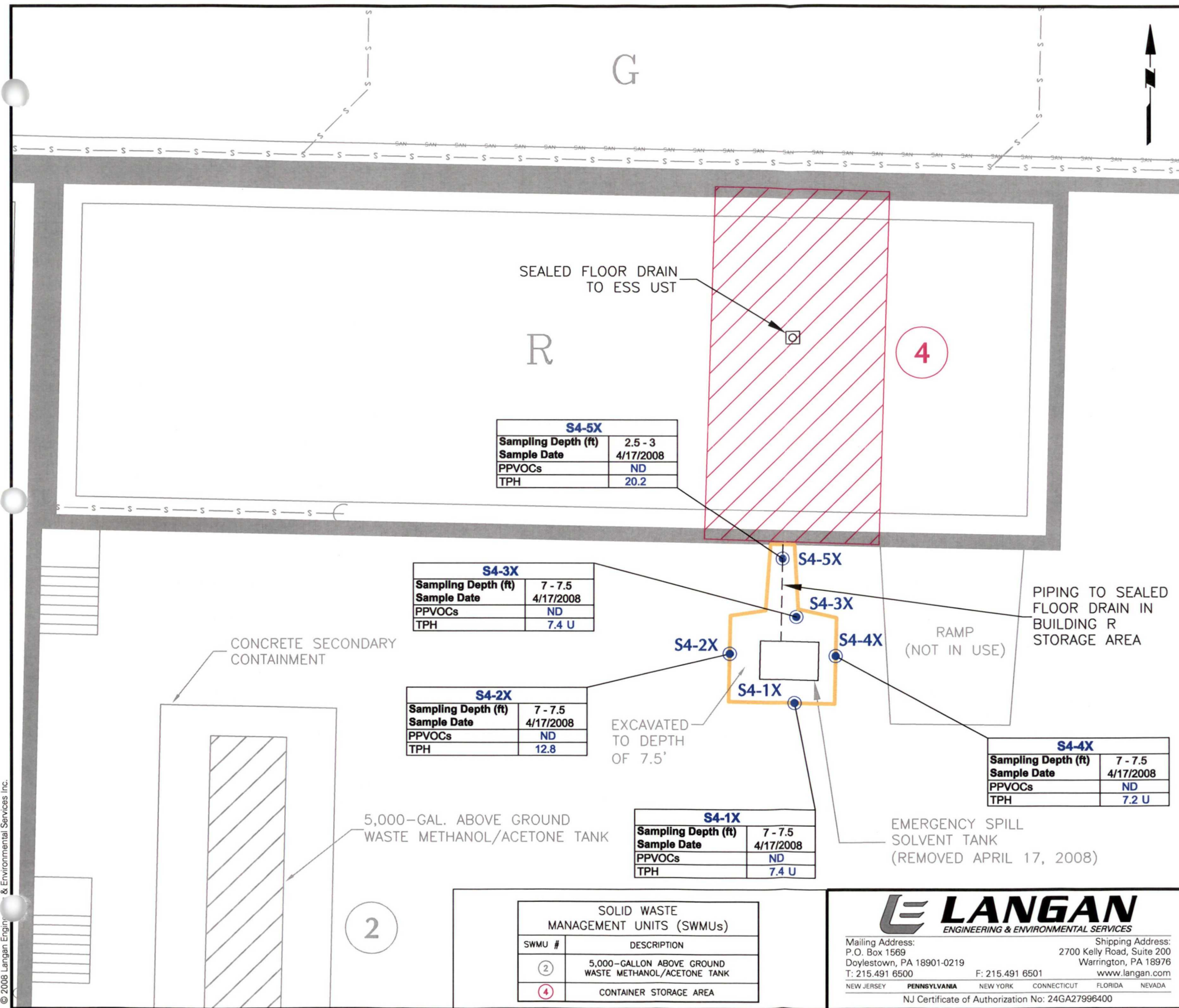
6-3

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Filename: Q:\Data\3568401\Cadd Data - 3568401\Draw\2008 Supplemental RFI Record\Figure 6-3\_SWMU 3\_111008.dwg Date: 11/24/2008 Time: 15:14 User: skresslev Style Table: Langan.stb Layout: B Size Sheet (Bottom)



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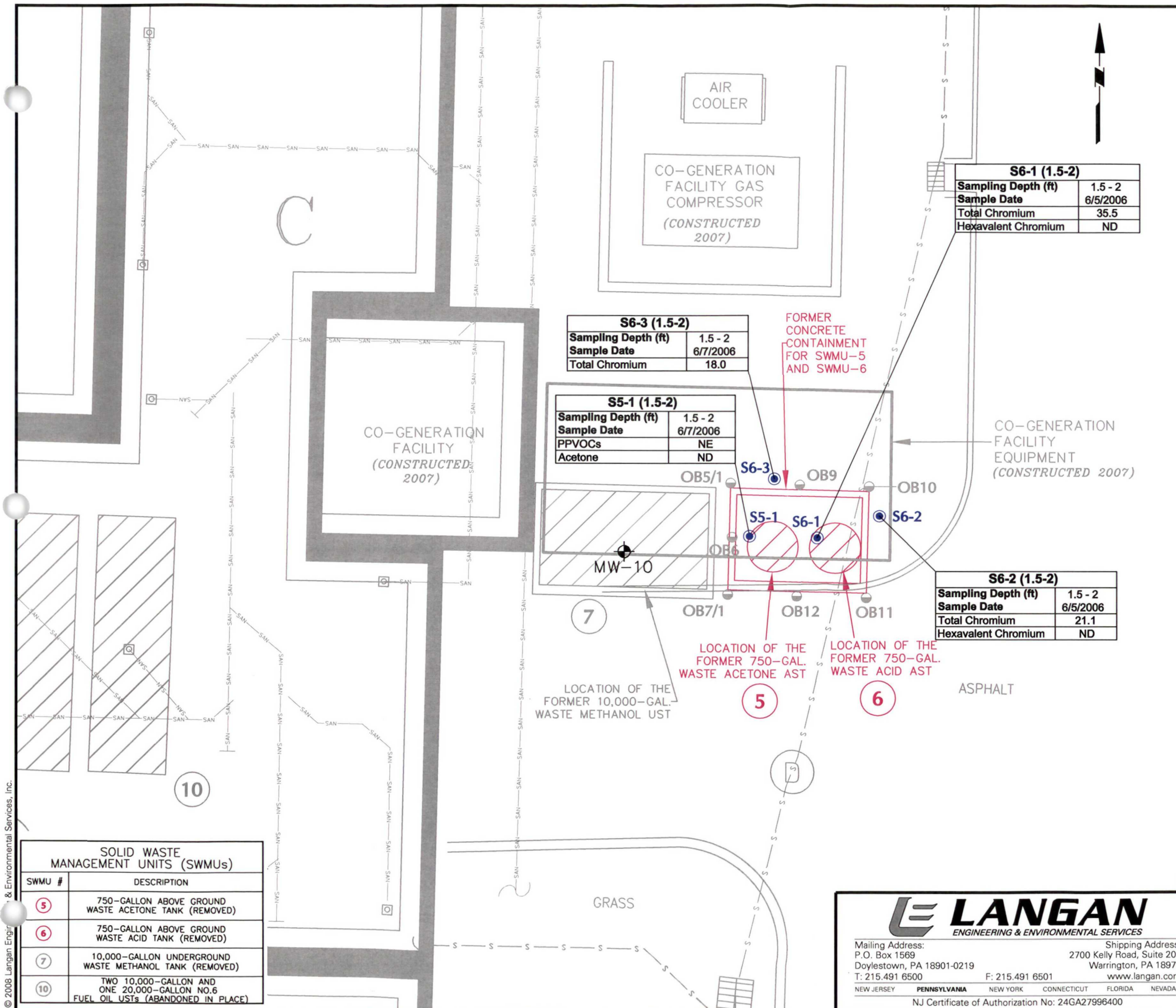


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Project  
**SOIL SAMPLE LOCATIONS AND RESULTS AT THE EMERGENCY SPILL SOLVENT TANK ORTHO-CLINICAL DIAGNOSTICS**  
RARITAN NEW JERSEY  
Project No. 3568401 Date 10/06/08 Scale 1" = 10' Figure 6-4



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SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)

LEGEND

- BELOW GRADE SANITARY SEWER
- BELOW GRADE STORM SEWER WITH CATCH BASIN
- FLOOR DRAIN
- EXISTING SHALLOW MONITORING WELL
- SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- LOCATION OF SWMU
- 1987 TANK CLOSURE SOIL SAMPLES (RESULTS NOT SHOWN)
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
- EDGE OF ASPHALT PAVEMENT
- SITE BUILDING LABEL
- NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION MAY 12, 1999 SOIL CLEANUP CRITERIA
- NOT DETECTED ABOVE REFERENCED REPORTING LIMIT
- NOT DETECTED
- NO EXCEEDANCES OF THE MAY 12, 1999 NJDEP SCC
- UNDERGROUND STORAGE TANK
- ABOVEGROUND STORAGE TANK
- ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (MG/KG)

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Acetone	1,000	1,000	100
Beryllium	2	2	NS
Lead	400	600	NS

REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING AND FORMER SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATE AND TITLES PREPARED BY RECON SYSTEMS INC., McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.
- THE LOCATION OF THE CO-GENERATION FACILITY (CONSTRUCTED IN 2007) IS BASED ON FIGURE M-101 ENTITLED "GENERAL ARRANGEMENT COGENERATION ADDITION" PREPARED BY SYSKA HENNESSY GROUP ON MAY 30, 2006, REVISED ON OCTOBER 30, 2006.



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Project **SOIL SAMPLING LOCATIONS AND RESULTS AT SWMU-5 (750-GALLON ABOVE- GROUND WASTE ACETONE TANK) AND SWMU-6 (750-GALLON ABOVE- GROUND WASTE ACID TANK)**

RARITAN NEW JERSEY

Project No. 3568401	Date 10/08/08	Scale 1" = 10'	Figure 6-5
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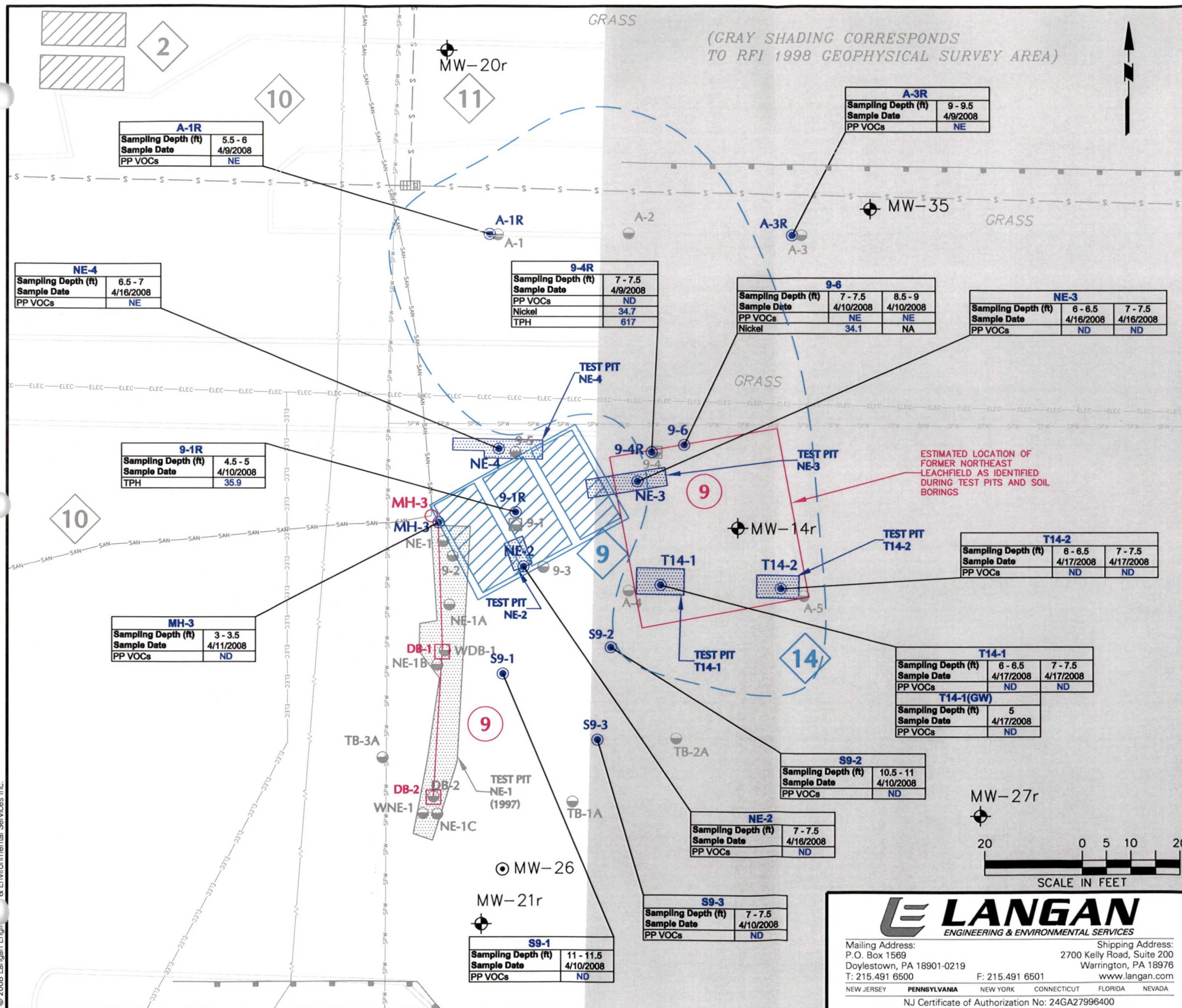












### LEGEND

	LEACHFIELD SEWER LINE
	SPRINKLER WATER SUPPLY LINE
	ELECTRIC CONDUIT
	OVERHEAD WIRES
	GUARD RAIL
	BELOW GRADE STORM SEWER WITH CATCH BASIN
	EDGE OF ASPHALT PAVEMENT
	APPROXIMATE EXTENT OF AERIAL PHOTOGRAPH ANOMALY (AOC-14)
	AREA OF CONCERN (AOC) DESIGNATION
	SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
	LOCATION OF AOC
	LOCATION OF SWMU
	1997 GEOPHYSICAL SURVEY AREA
	EXISTING SHALLOW MONITORING WELL
	SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
	PRE-SUPPLEMENTAL RFI SOIL SAMPLE LOCATION
NJDEP SCC	NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION MAY 12, 1999 SOIL CLEANUP CRITERIA
NE	NO EXCEEDANCES
ND	NOT DETECTED
NA	NOT ANALYZED
NS	NO STANDARD ESTABLISHED
UST	UNDERGROUND STORAGE TANK
	ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Nickel	250	2,400	NS
TPH*		10,000	

\*: Soil cleanup criteria listed reflects the Total Organic Cap.  
There is no specific soil cleanup criteria for TPH.

## REFERENCES

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
9	FORMER NORTHEAST LEACH FIELD

AREAS OF CONCERN	
AOC #	DESCRIPTION
2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
9	THREE WASTE SOLVENT USTs (REMOVED)
10	LEACH FIELD SEWER LINE
11	CHLOROFORM MW-20
14	AERIAL PHOTOGRAPH ANOMALY

Project  
TEST PIT LOCATIONS, SOIL SAMPLE LOCATIONS AND RESULTS AT  
SWMU-9 (NORTHEAST LEACHFIELD), AOC-9 (FORMER SOLVENT USTs),  
AND AOC-14 (AERIAL PHOTOGRAPH ANOMALY)  
ORTHO-CLINICAL DIAGNOSTICS

PARITAN		NEW JERSEY	
Project No. 3568401	Date 10/23/08	Scale 1" = 20'	Figure 6-8



H

C

CO-GENERATION FACILITY  
(CONSTRUCTED 2007)

CO-GENERATION FACILITY  
(CONSTRUCTED 2007)

FORMER COOLING TOWER

S10-1

S10-1	Sampling Depth (ft)	4 - 4.5
Sample Date	4/23/2008	
TPH	7.4	U

10

FORMER GASOLINE PUMP  
COOLING TOWERS ABOVE

3

5-12	Sampling Depth (ft)	0 - 0.5
Sample Date	6/5/2006	
TPH	113	
PAHs		
Benzo(a)anthracene	0.153	
Benzo(a)pyrene	0.192	
Benzo(b)fluoranthene	0.251	
Benzo(k)fluoranthene	0.18	
Indeno(1,2,3-cd)pyrene	0.0942	

5-13	Sampling Depth (ft)	0 - 0.5
Sample Date	6/5/2006	
TPH	70.3	
PAHs		
Benzo(a)anthracene	0.0793	
Benzo(a)pyrene	0.0951	
Benzo(b)fluoranthene	0.121	
Benzo(k)fluoranthene	0.0939	
Indeno(1,2,3-cd)pyrene	0.0457	

S10-2	Sampling Depth (ft)	6.5 - 7
Sample Date	4/23/2008	
TPH	639	
PAHs	NE	

MW-10

5-11	Sampling Depth (ft)	0 - 0.5
Sample Date	6/5/2006	
TPH	119	
PAHs		
Benzo(a)anthracene	0.032 J	
Benzo(a)pyrene	0.0311 J	
Benzo(b)fluoranthene	0.0287 J	
Benzo(k)fluoranthene	0.0335 J	
Indeno(1,2,3-cd)pyrene	0.076 U	

5-10	Sampling Depth (ft)	0 - 0.5	2 - 2.5
Sample Date	6/5/2006	10/6/2006	
TPH	446	NA	
PAHs			
Benzo(a)anthracene	0.994	0.54	
Benzo(a)pyrene	1.25	0.45	
Benzo(b)fluoranthene	1.62	0.41	
Benzo(k)fluoranthene	1.19	0.34	
Indeno(1,2,3-cd)pyrene	0.502	0.22	

FORMER FILL PORT PAD AND FILL PIPING

5-19	Sampling Depth (ft)	0 - 0.5	2 - 2.5
Sample Date	10/6/2006	10/6/2006	
TPH			
PAHs			
Benzo(a)anthracene	0.68	0.41 U	
Benzo(a)pyrene	0.95	0.41 U	
Benzo(b)fluoranthene	1.1	0.41 U	
Benzo(k)fluoranthene	0.99	0.41 U	
Indeno(1,2,3-cd)pyrene	0.27	0.041 U	

5-17	Sampling Depth (ft)	0 - 0.5	2 - 2.5
Sample Date	10/6/2006	10/6/2006	
TPH			
PAHs			
Benzo(a)anthracene	2.1	0.38 U	
Benzo(a)pyrene	2.6	0.018 J	
Benzo(b)fluoranthene	3.7	0.38 U	
Benzo(k)fluoranthene	2.8	0.051 J	
Indeno(1,2,3-cd)pyrene	0.97	0.028 J	

5-14	Sampling Depth (ft)	3.5 - 4
Sample Date	6/5/2006	
TPH	708	
PAHs		
Benzo(a)anthracene	0.0634 J	
Benzo(a)pyrene	0.0615 J	
Benzo(b)fluoranthene	0.0665 J	
Benzo(k)fluoranthene	0.0734 J	
Indeno(1,2,3-cd)pyrene	0.077 U	

MW-9

MW-3

FUEL OIL PIPE  
CONCRETE TRENCH  
W/ STEEL COVER

4

MW-44

MW-12

MW-11

MW-13

SOLID WASTE MANAGEMENT UNITS (SWMUs)

SWMU #	DESCRIPTION
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)

AREAS OF CONCERN

AOC #	DESCRIPTION
4	TWO 2,000-GALLON LEADER GASOLINE USTs (REMOVED)
5	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
6	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
7	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)

FORMER FILL PORT PADS

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NJ Certificate of Authorization No. 24GA27996400

# LEGEND

- S— BELOW GRADE SANITARY SEWER LINE
- R/OIL— SWMU-10 BELOW GRADE FUEL OIL FILL/SUPPLY LINE (REMOVED)
- R/OIL— BELOW GRADE FUEL OIL FILL/SUPPLY LINE (REMOVED)
- A/OIL— SWMU-10 BELOW GRADE FUEL OIL FILL/SUPPLY LINE (ABANDONED)
- A/OIL— BELOW GRADE FUEL OIL FILL/SUPPLY LINE (ABANDONED)
- S— STORM SEWER WITH CATCH BASIN
- 2008 EXCAVATION LIMITS OF PAH-IMPACTED SOILS (3-FOOT DEPTH EXCAVATION)
- EXISTING SHALLOW MONITORING WELL
- SEALED MONITORING WELL/PIEZOMETER
- 7 10 SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- 5 AREA OF CONCERN (AOC) DESIGNATION
- LOCATION OF SWMU
- LOCATION OF AOC
- EDGE OF ASPHALT PAVEMENT
- C SITE BUILDING LABEL
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS EXCEEDING THE NJDEP SCC
- RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
- NJDEP SCC NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION SOIL CLEANUP CRITERIA (MAY 12, 1999)
- TPH TOTAL PETROLEUM HYDROCARBONS
- PAHs POLYNUCLEAR AROMATIC HYDROCARBONS
- U NOT DETECTED ABOVE REFERENCED REPORTING LIMIT
- J ESTIMATED CONCENTRATION DETECTED BEFORE RECORDED LIMIT

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
TPH*		10,000	

PAHs			
Benzo(a)anthracene	0.9	4	500
Benzo(a)pyrene	0.66	0.66	100
Benzo(b)fluoranthene	0.9	4	50
Benzo(k)fluoranthene	0.9	4	500
Indeno(1,2,3-cd)pyrene	0.9	4	500

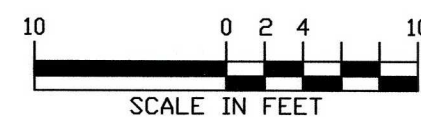
\* Soil cleanup criteria listed reflects the Total Organic Cap. There is no specific soil cleanup criteria for TPH.

## NOTES

- SOIL SAMPLES 5-10 THROUGH 5-14, 5-17 AND 5-19 ARE ADDRESSED UNDER AOC-5. SOILS FROM WHICH THESE SAMPLES WERE COLLECTED WERE EXCAVATED ON MAY 8, 2008.

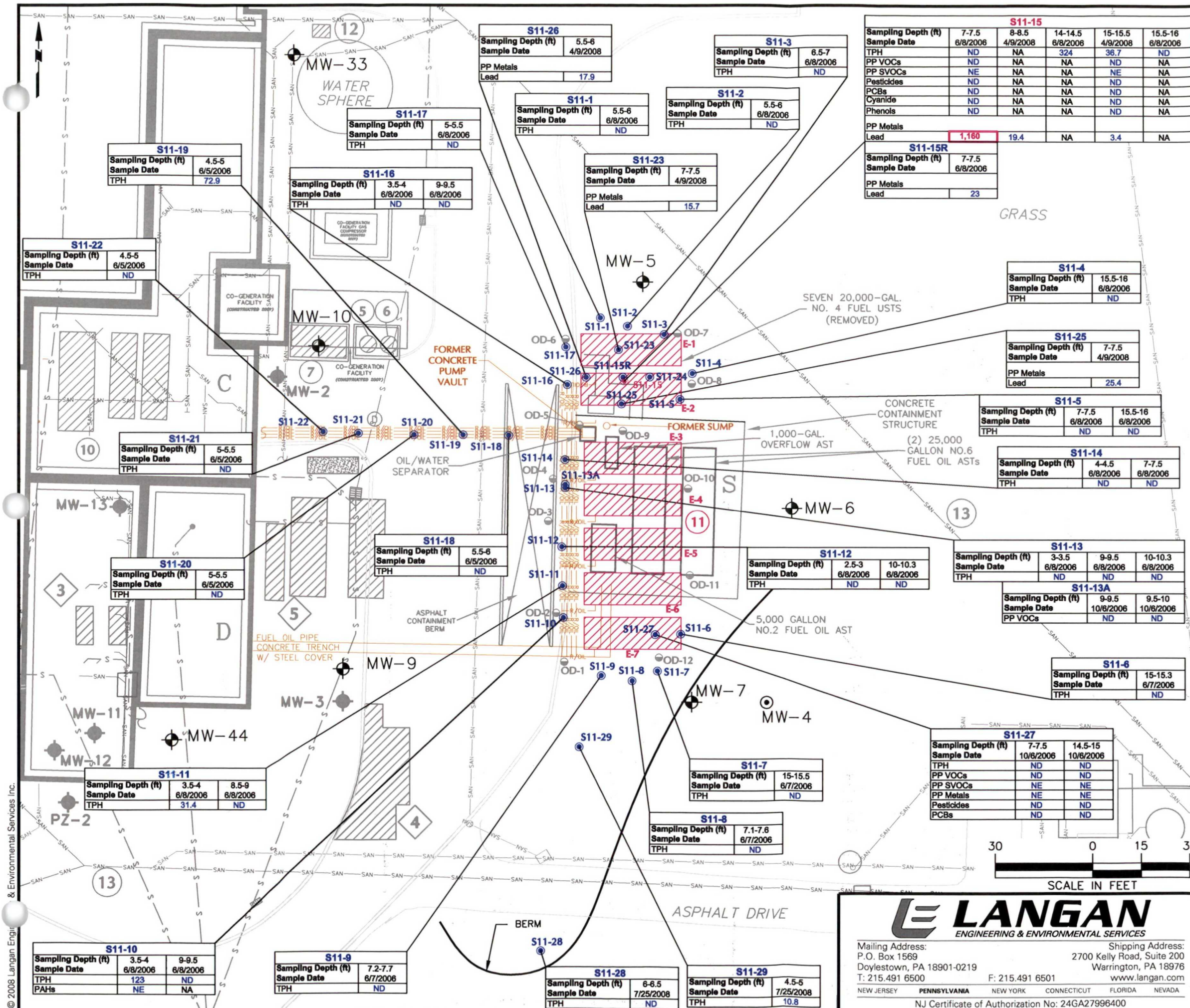
## REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.



Project	SOIL SAMPLE LOCATIONS AND RESULTS AT SWMU-10 (THREE NO. 6 FUEL OIL USTs) ORTHO-CLINICAL DIAGNOSTICS
RARITAN	NEW JERSEY
Project No.	3568401
Date	10/13/08
Scale	1" = 10'
Figure	6-9





### LEGEND

BELOW GRADE SANITARY SEWER LINE

BELOW GRADE STORM SEWER WITH CATCH BASIN

SWMU-11 BELOW GRADE FUEL OIL SUPPLY LINE (REMOVED)

EDGE OF ASPHALT PAVEMENT

AREA OF CONCERN (AOC) DESIGNATION

SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION

LOCATION OF AOC

LOCATION OF SWMU

EXISTING SHALLOW MONITORING WELL

EXISTING DEEP MONITORING WELL

ABANDONED MONITORING WELL

1987 SOIL BORING LOCATION

SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC

SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS ABOVE THE NJDEP SCC

**E1** UST IDENTIFICATION NUMBER

**NJDEP SCC** NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION MAY 12, 1999 SOIL CLEANUP CRITERIA

**NE** NO EXCEEDANCES

**ND** NOT DETECTED

**NA** NOT ANALYZED

**NS** NO STANDARD ESTABLISHED

**UST** UNDERGROUND STORAGE TANK

ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Cyanide	1,100	21,000	NS
Phenols	10,000	10,000	50
TPH*	10,000		
Lead	400	600	NS

\*: Soil cleanup criteria listed reflects the Total Organic Cap. There is no specific soil cleanup criteria for TPH.

### REFERENCES

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

### SOLID WASTE MANAGEMENT UNITS (SWMUs)

SWMU #	DESCRIPTION
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND FUEL OIL USTs (REMOVED)
11	FUEL OIL USTs (ABANDONED IN PLACE)
12	SEVEN 20,000-GALLON NO.4 ONE 20,000-GALLON NO.6
13	550-GALLON GASOLINE UST (REMOVED)

\*\* REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL USTs

### AREAS OF CONCERN

AOC #	DESCRIPTION
5	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
6	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
7	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)

## Project

### SOIL SAMPLE LOCATIONS AND RESULTS AT SWMU-11 (SEVEN NO. 6 FUEL OIL USTs) ORTHO-CLINICAL DIAGNOSTICS

RARITAN NEW JERSEY

Project No.	Date	Scale	Figure
3568401	10/23/08	1" = 30'	6-10

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NJ Certificate of Authorization No: 24GA27996400

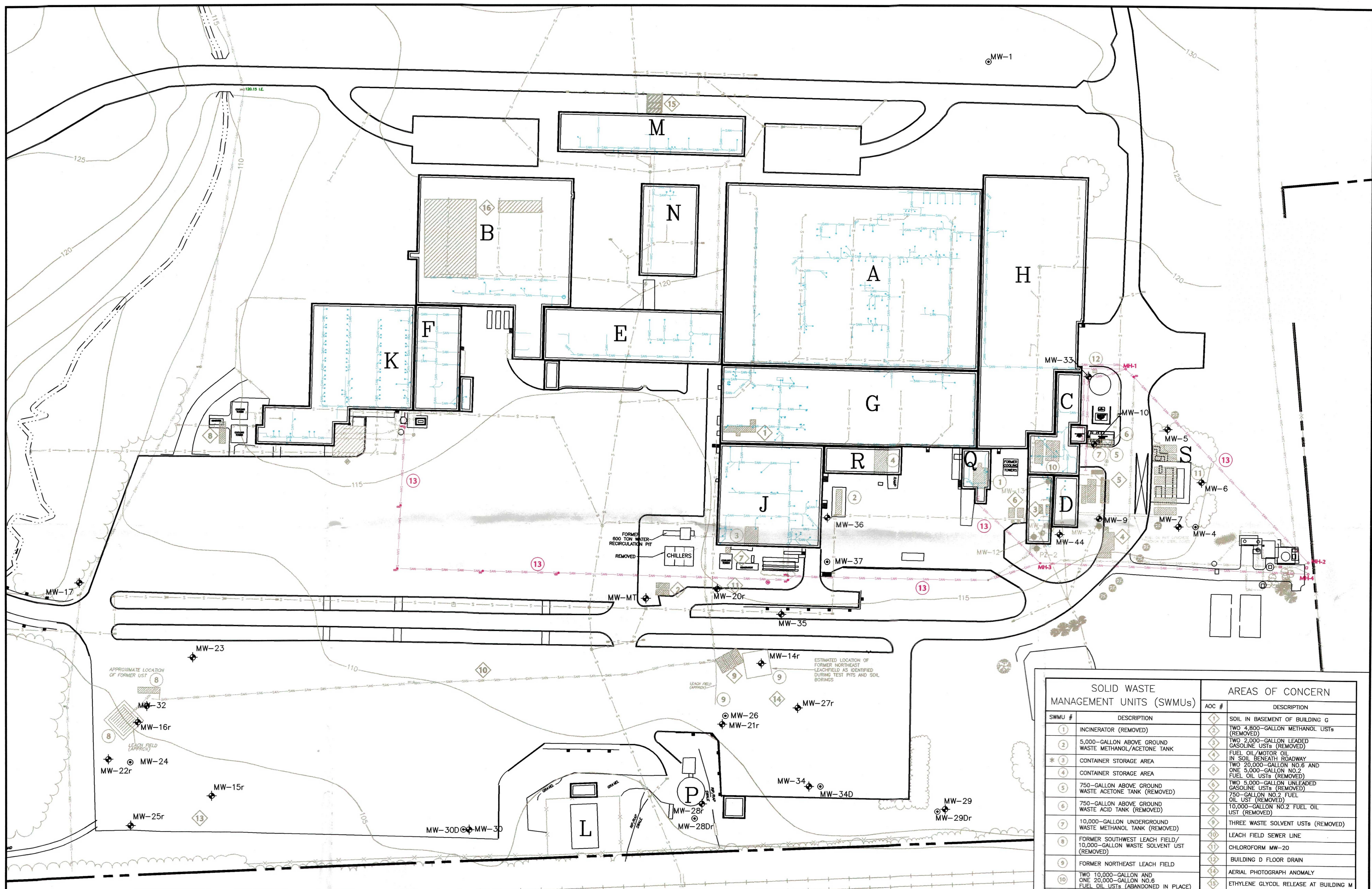
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**LEGEND**

- |  |  |  |  |  |                           |
|--|--|--|--|--|---------------------------|
|  | EXISTING SHALLOW MONITORING WELL               |  | BELOW GRADE STORM SEWER WITH CATCH BASIN                           |  | APPROXIMATE SITE BOUNDARY |
|  | EXISTING DEEP MONITORING WELL                  |  | BELOW GRADE PROCESS/SANITARY SEWER WITH MANHOLE                    |  | FENCE LINE                |
|  | SEALED MONITORING WELL/PIEZOMETER              |  | BELOW GRADE EXTERIOR PROCESS/SANITARY SEWER WITH MANHOLE (SWMU-13) |  | EDGE OF ASPHALT PAVEMENT  |
|  | AREA OF CONCERN (AOC) DESIGNATION              |  | BELOW GRADE INTERIOR PROCESS/SANITARY SEWER                        |  | SURFACE CONTOUR ELEVATION |
|  | SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION |  | FLOOR DRAIN  |  | TREE LINE                 |
|  | LOCATION OF AOC                                |  | CLEAN OUT OR RISER   |  | TREES                     |
|  | LOCATION OF SWMU                               |  | SITE BUILDING LABEL  |  | UNDERGROUND STORAGE TANK  |

**REFERENCES**

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

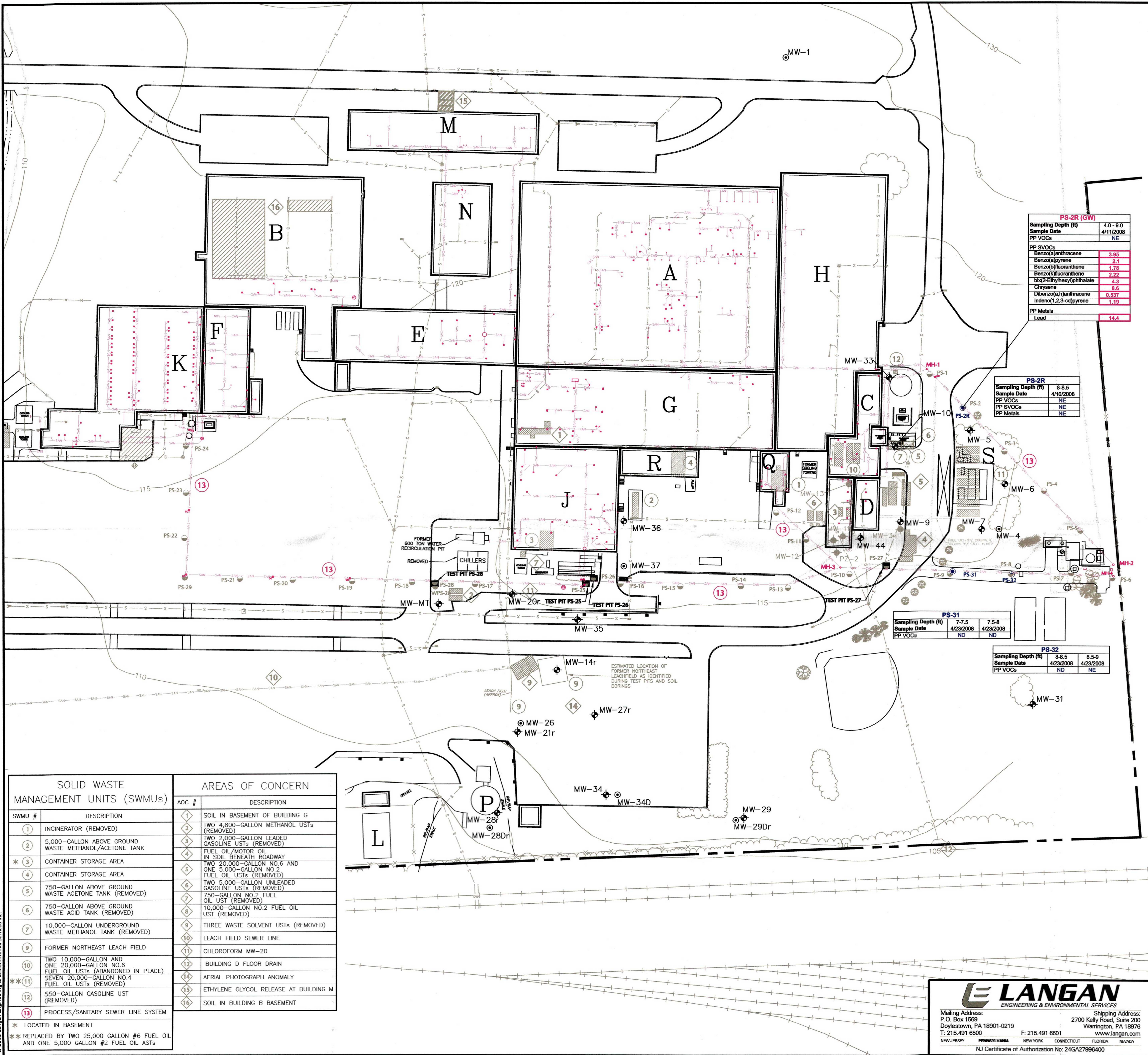
SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
1	INCINERATOR (REMOVED)	1	SOIL IN BASEMENT OF BUILDING G
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
3	CONTAINER STORAGE AREA	3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	CONTAINER STORAGE AREA	4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)	6	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	7	750-GALLON NO.2 FUEL OIL UST (REMOVED)
8	FORMER SOUTHWEST LEACH FIELD/10,000-GALLON WASTE SOLVENT UST (REMOVED)	8	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
9	FORMER NORTHEAST LEACH FIELD	9	THREE WASTE SOLVENT USTs (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)	10	LEACH FIELD SEWER LINE
11	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	11	CHLOROFORM MW-20
12	550-GALLON GASOLINE UST (REMOVED)	12	BUILDING D FLOOR DRAIN
13	PROCESS/SANITARY SEWER LINE SYSTEM	13	AERIAL PHOTOGRAPH ANOMALY
* LOCATED IN BASEMENT		14	ETHYLENE GLYCOL RELEASE AT BUILDING M
** REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL ASTs		15	SOIL IN BUILDING B BASEMENT

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NJ Certificate of Authorization No: 24GA27996400

Project  
**PROCESS/SANITARY SEWER SYSTEM LAYOUT**  
**ORTHO-CLINICAL DIAGNOSTICS**  
Raritan NEW JERSEY  
Project No. 3568401 Date 11/06/08 Scale 1" = 80' Dwg. No. 6-12



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## LEGEND

- EXISTING SHALLOW MONITORING WELL
- EXISTING DEEP MONITORING WELL
- SEALED MONITORING WELL/PIEZOMETER
- AREA OF CONCERN (AOC) DESIGNATION
- SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- LOCATION OF AOC
- LOCATION OF SWMU
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW NJDEP'S 1999 SCC
- RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW NJDEP'S 1999 SCC
- BELOW GRADE STORM SEWER WITH CATCH BASIN
- BELOW GRADE PROCESS/SANITARY SEWER WITH MANHOLE
- BELOW GRADE EXTERIOR PROCESS/SANITARY SEWER WITH MANHOLE (SWMU-13)
- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- EDGE OF ASPHALT PAVEMENT
- SURFACE CONTOUR ELEVATION
- TREE LINE
- TREES
- D SITE BUILDING LABEL
- 8.6 GROUNDWATER GRAB SAMPLE WITH CONCENTRATIONS ABOVE NJDEP'S CLASS IIA GQS
- NJDEP NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
- GQS GROUNDWATER QUALITY STANDARD (7/7/08)
- SCC SOIL CLEANUP CRITERIA (5/12/99)
- RFI RCRA FACILITY INVESTIGATION
- UST UNDERGROUND STORAGE TANK
- ALL SOIL SAMPLE RESULTS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)
- ALL GROUNDWATER SAMPLE RESULTS ARE SHOWN IN MICROGRAMS PER LITER (UG/L)

## REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY MCLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
1	INCINERATOR (REMOVED)	1	SOIL IN BASEMENT OF BUILDING G
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
3	CONTAINER STORAGE AREA	3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	CONTAINER STORAGE AREA	4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)	6	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	7	750-GALLON NO.2 FUEL OIL UST (REMOVED)
8	FORMER NORTHEAST LEACH FIELD	8	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
9	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)	9	THREE WASTE SOLVENT USTs (REMOVED)
10	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	10	LEACH FIELD SEWER LINE
11	550-GALLON GASOLINE UST (REMOVED)	11	CHLOROFORM MW-20
12	PROCESS/SANITARY SEWER LINE SYSTEM	12	BUILDING D FLOOR DRAIN
13		13	AERIAL PHOTOGRAPH ANOMALY
		14	ETHYLENE GLYCOL RELEASE AT BUILDING M
		15	SOIL IN BUILDING B BASEMENT

\* LOCATED IN BASEMENT  
\*\* REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL ASTs

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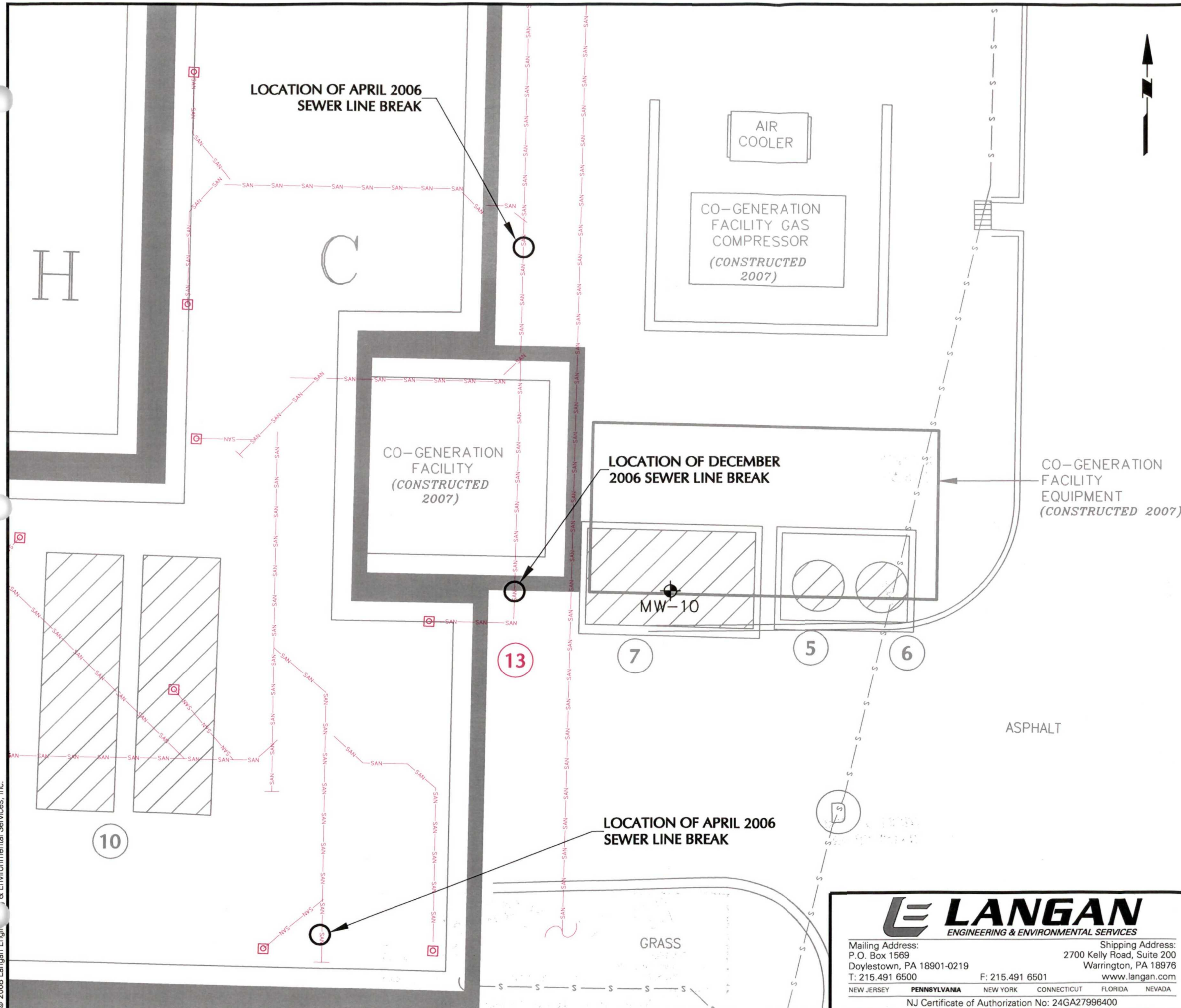
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Project  
**SOIL AND GROUNDWATER GRAB SAMPLING LOCATIONS AND RESULTS AT PROCESS/SANITARY SEWER LINE SYSTEM (SWMU-13)**

RARITAN NEW JERSEY

Project No. 3568401 Date 11/06/08 Scale 1" = 80' Dwg. No. 6-13





**LEGEND**

- BELOW GRADE SANITARY SEWER (SWMU-13)
- BELOW GRADE STORM SEWER WITH CATCH BASIN
- FLOOR DRAIN
- EXISTING SHALLOW MONITORING WELL
- SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- LOCATION OF SWMU
- EDGE OF ASPHALT PAVEMENT
- SITE BUILDING LABEL
- UNDERGROUND STORAGE TANK

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)
13	PROCESS/SANITARY SEWER LINE SYSTEM

**REFERENCES**

- APPROXIMATE LOCATIONS OF EXISTING AND FORMER SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATE AND TITLES PREPARED BY RECON SYSTEMS INC., McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.
- THE LOCATION OF THE CO-GENERATION FACILITY (CONSTRUCTED IN 2007) IS BASED ON FIGURE M-101 ENTITLED "GENERAL ARRANGEMENT COGENERATION ADDITION" PREPARED BY SYSKA HENNESSY GROUP ON MAY 30, 2006, REVISED ON OCTOBER 30, 2006.



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Project

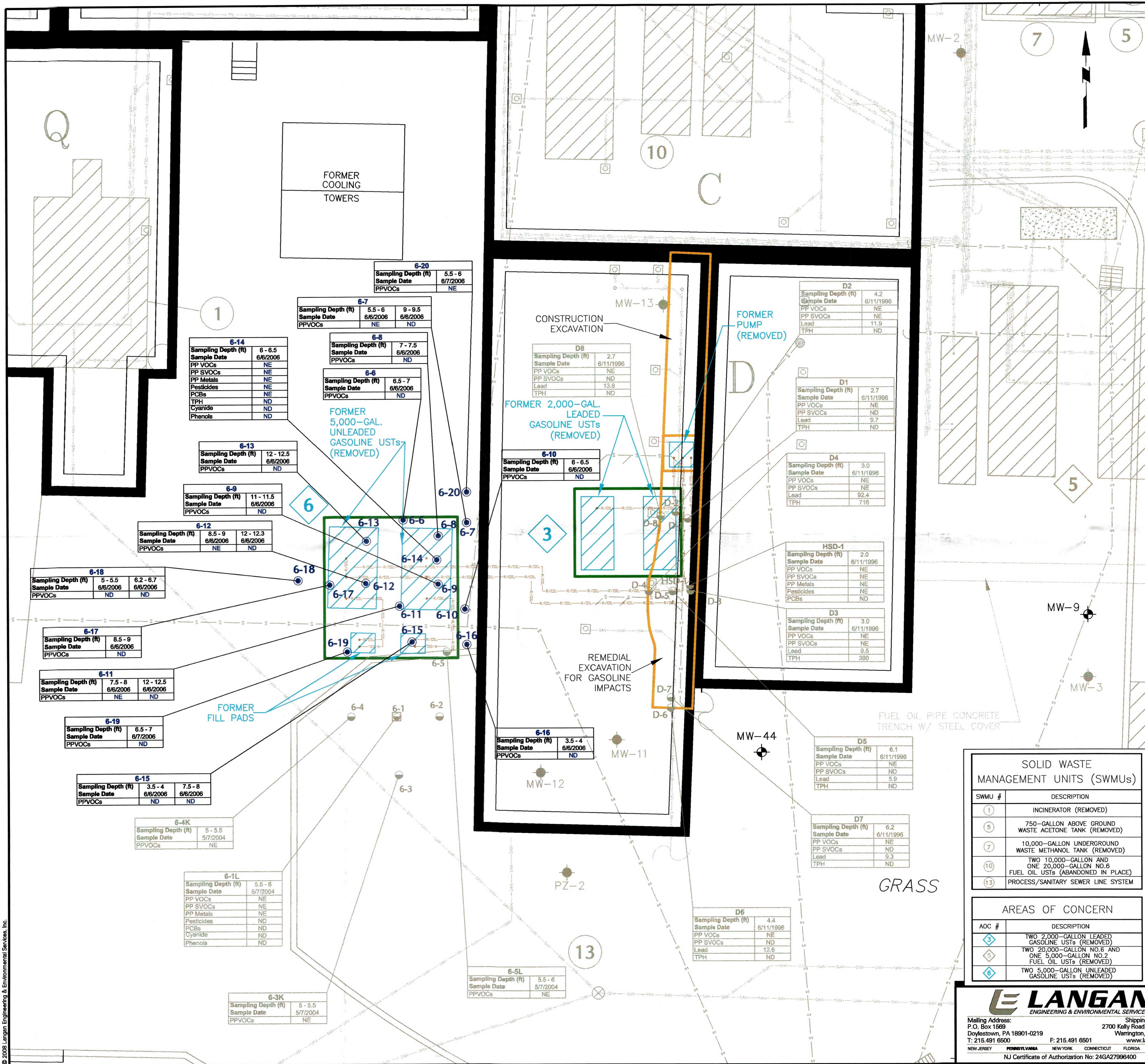
**BUILDING C SANITARY SEWER BREAKS  
ORTHO-CLINICAL DIAGNOSTICS**

RARITAN

NEW JERSEY

Project No.	Date	Scale	Figure
3568401	11/29/08	1" = 10'	6-14





LEGEND
BELOW GRADE SANITARY SEWER LINE
AOC-6 BELOW GRADE FUEL OIL FILL/SUPPLY LINE (REMOVED)
BELOW GRADE FUEL OIL FILL/SUPPLY LINE (REMOVED)
BELOW GRADE FUEL OIL FILL/SUPPLY LINE (ABANDONED)
BELOW GRADE STORM SEWER WITH CATCH BASIN
EXISTING SHALLOW MONITORING WELL
SEALED MONITORING WELL/PIEZOMETER
SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
AREA OF CONCERN (AOC) DESIGNATION
LOCATION OF SWMU
LOCATION OF AOC
EDGE OF ASPHALT PAVEMENT
1986 EXCAVATION BOUNDARIES
1996 EXCAVATION BOUNDARIES
SITE BUILDING LABEL
SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC
NJDEP SCC
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION SOIL CLEANUP CRITERIA (MAY 12, 1999)
PP VOCs PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS
PP SVOCs PRIORITY POLLUTANT SEMI-VOLATILE ORGANIC COMPOUNDS
PP Metals PRIORITY POLLUTANT METALS
PCBs POLYCHLORINATED BIPHENYLS
TPH TOTAL PETROLEUM HYDROCARBONS
NE NO EXCEEDANCES
ND NOT DETECTED
U NOT DETECTED ABOVE REFERENCED REPORTING LIMIT
NS NO STANDARD ESTABLISHED
ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)

Table with 4 columns: NJDEP Soil Cleanup Criteria May 12, 1999, Residential Direct Contact (mg/kg), Non-Residential Direct Contact (mg/kg), Impact to Groundwater (mg/kg). Rows include Cyanide, Lead, Phenols, and TPH.

\*: Soil cleanup criteria listed reflects the Total Organic Cap. There is no specific soil cleanup criteria for TPH.

REFERENCE

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

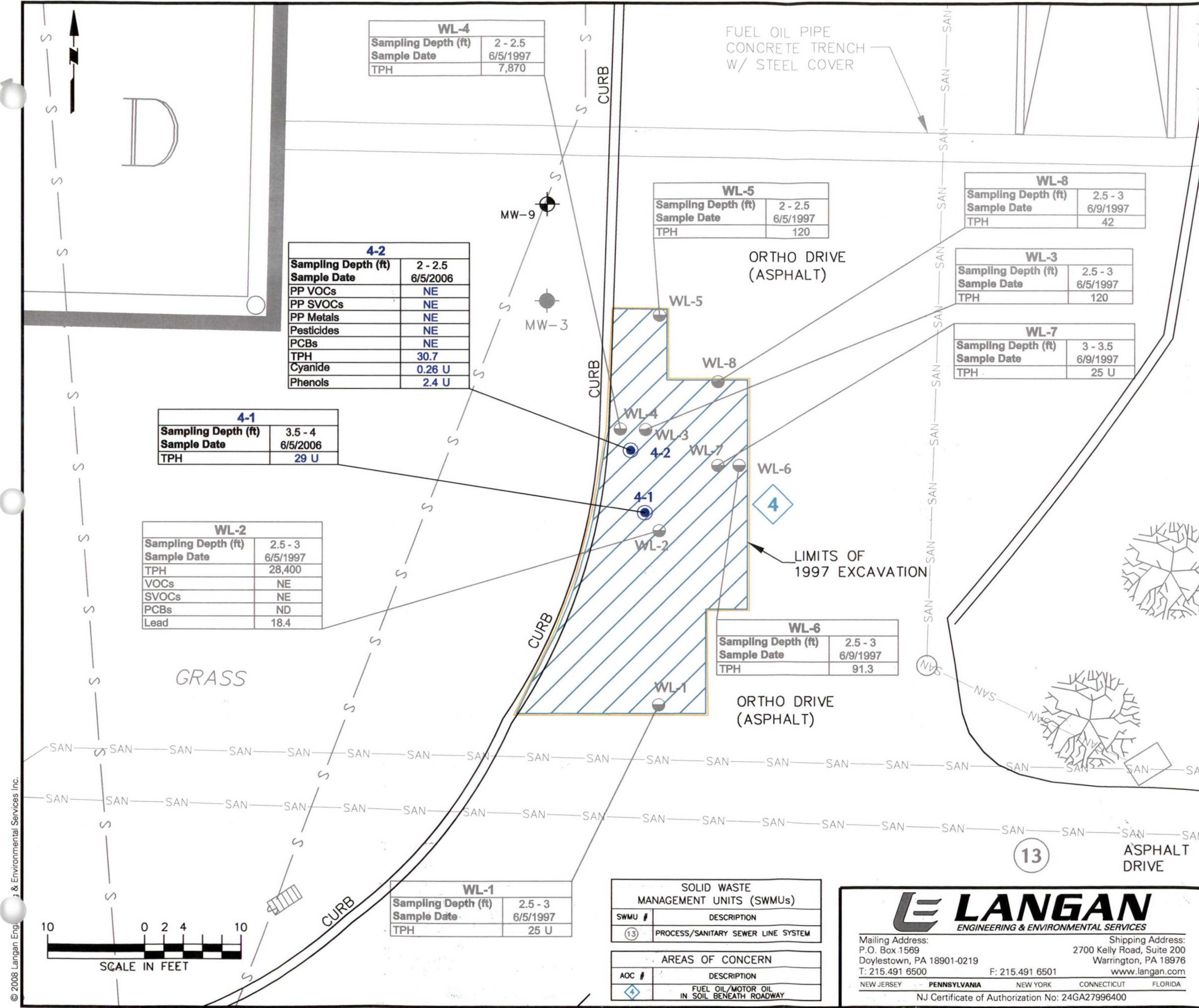
Table with 2 columns: SWMU #, DESCRIPTION. Lists various waste management units including incinerator, acetone tank, methanol tank, and fuel oil USTs.

Table with 2 columns: AOC #, DESCRIPTION. Lists areas of concern including gasoline USTs and fuel oil USTs.

LANGAN ENGINEERING & ENVIRONMENTAL SERVICES logo and contact information including mailing address, phone, and website.

Project information including title 'SOIL SAMPLE LOCATIONS AND RESULTS AT AOC-3 (GASOLINE USTs NEAR BUILDING D) AND AOC-6 (FORMER 5,000-GAL UNLEADED GASOLINE USTs) ORTHO-CLINICAL DIAGNOSTICS', project number, date, scale, and figure number.





**LEGEND**  
SAN — BELOW GRADE SANITARY SEWER LINE  
S — BELOW GRADE STORM SEWER WITH CATCH BASIN  
● — EXISTING SHALLOW MONITORING WELL  
● — ABANDONED MONITORING WELL  
4 — AREA OF CONCERN (AOC) DESIGNATION  
13 — SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION  
[Hatched] — LOCATION OF AOC  
[Hatched] — LOCATION OF SWMU  
— — LIMITS OF JUNE 1997 EXCAVATION (DEPTH OF EXCAVATION FROM 2.5 TO 3.5 FEET BELOW GRADE)  
● — 1997 SOIL SAMPLE LOCATION  
● — SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC  
— — EDGE OF ASPHALT PAVEMENT  
D — SITE BUILDING LABEL  
● — TREES  
TPH — TOTAL PETROLEUM HYDROCARBONS  
VOCs — VOLATILE ORGANIC COMPOUNDS  
SVOCs — SEMI-VOLATILE ORGANIC COMPOUNDS  
PCBs — POLYCHLORINATED BIPHENYLS  
NE — NO EXCEEDANCES  
U — NOT DETECTED ABOVE REFERENCED REPORTING LIMIT  
ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER KILOGRAM (MG/KG)

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
TPH*	10,000		
Cyanide	1,100	21,000	NS
Phenols	10,000	10,000	50
Lead	400	600	NS

\*: Soil cleanup criteria listed reflects the Total Organic Cap.  
There is no specific soil cleanup criteria for TPH.

**REFERENCES**  
1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.

Sample Location	Sample Depth (feet)	Sidewall/Bottom	Approximate Depth of Excavation (feet)
WL-1	2.0-2.5	Sidewall	2.5
WL-2	2.5-3.0	Excavated Soil	3.5
WL-3	2.5-3.0	Bottom	2.5
WL-4	2.0-2.5	Sidewall	2.5
WL-5	2.0-2.5	Sidewall	2.5
WL-6	2.5-3.0	Sidewall	3
WL-7	3.0-3.5	Bottom	3
WL-8	2.5-3.0	Sidewall	3

Project  
**SOIL SAMPLE LOCATIONS AND RESULTS AT AOC-4 (FUEL OIL/MOTOR OIL BENEATH ROADWAY)**  
**ORTHOClinical Diagnostics**

RARITANNEW JERSEY

Project No.	Date	Scale	Figure
3568401	11/10/08	1" = 10'	7-2

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SOLID WASTE MANAGEMENT UNITS (SWMUs)

SWMU #	DESCRIPTION
13	PROCESS/SANITARY SEWER LINE SYSTEM

AREAS OF CONCERN

AOC #	DESCRIPTION
4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY

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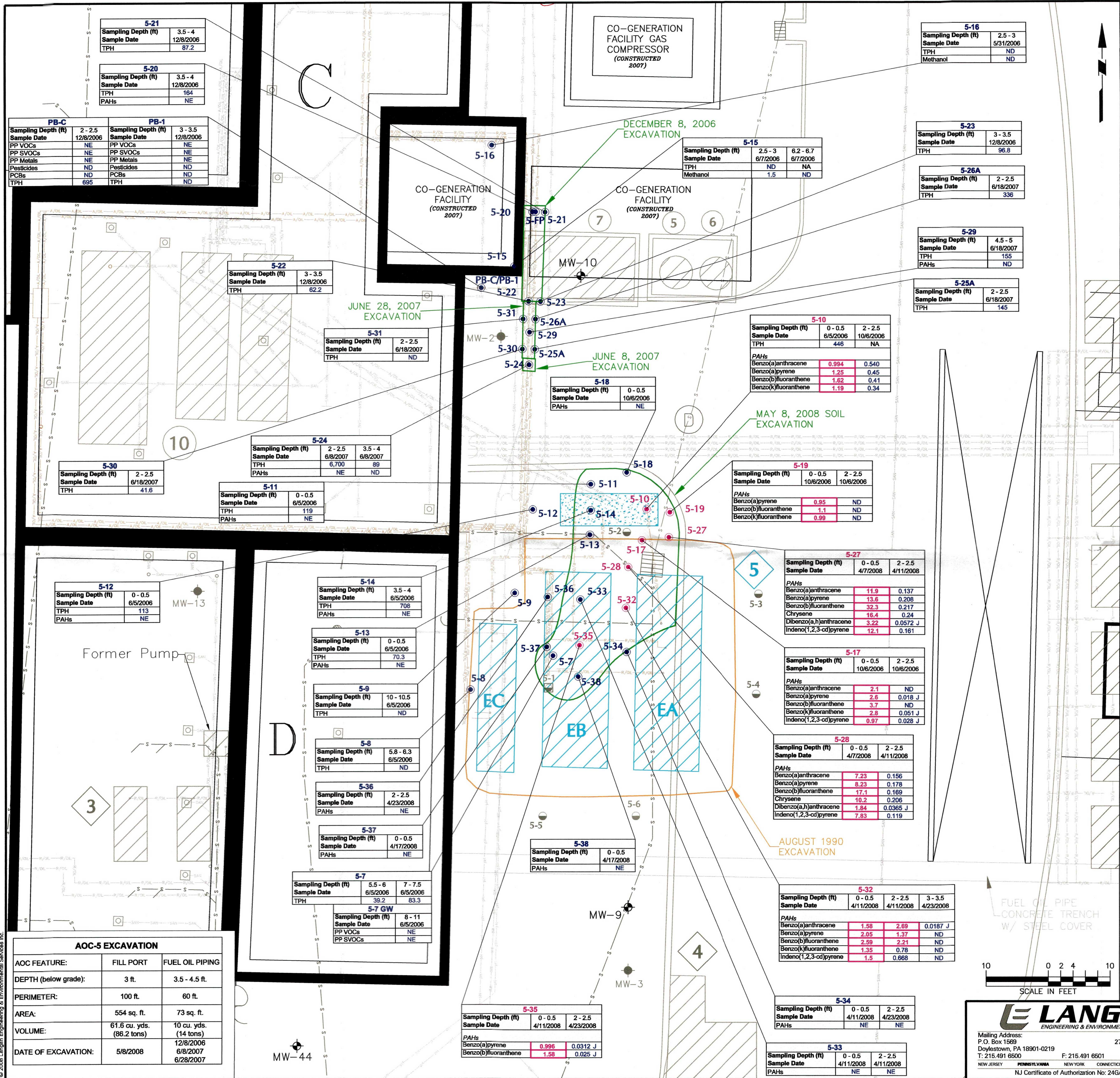
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LEGEND

- BELOW GROUND SANITARY SEWER LINE
- BELOW GROUND REMOVED FUEL OIL SUPPLY LINE (AOC-5)
- BELOW GROUND REMOVED FUEL OIL SUPPLY LINE
- BELOW GROUND ABANDONED FUEL OIL SUPPLY LINE (AOC-5)
- BELOW GROUND ABANDONED FUEL OIL SUPPLY LINE
- STORM SEWER WITH CATCH BASIN
- pH CONDUIT
- WELL WATER SUPPLY LINE
- EXISTING SHALLOW MONITORING WELL
- SEALED MONITORING WELL/PIEZOMETER
- AREA OF CONCERN (AOC) DESIGNATION
- SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- LOCATION OF SWMU
- LOCATION OF AOC
- FORMER CONCRETE FILL PORT PAD
- RFI SOIL SAMPLE LOCATION
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WHERE CONSTITUENTS WERE ABOVE NJDEP SCC
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WHERE CONSTITUENTS WERE BELOW NJDEP SCC
- APPROXIMATE LIMITS OF FORMER EXCAVATION
- SUPPLEMENTAL RFI EXCAVATION LIMITS (SEE EXCAVATION SUMMARY TABLE)
- EDGE OF ASPHALT PAVEMENT
- FLOOR DRAIN
- SITE BUILDING LABEL
- NJDEP SCC
- NE
- ND
- NA
- NO EXCEEDANCES
- NOT DETECTED
- NOT ANALYZED
- ALL SOIL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)
- ALL GROUNDWATER CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER LITER (UG/L)
- A FINGERPRINT ANALYSIS WAS CONDUCTED ON SOIL SAMPLE 5-FP, WHICH DETERMINED THE PRESENCE OF FUEL OIL NO. 6

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Benzo(a)anthracene	0.9	4	500
Benzo(a)pyrene	0.66	0.66	100
Benzo(b)fluoranthene	0.9	4	50
Benzo(k)fluoranthene	0.9	4	500
Chrysene	9	40	500
Dibenzo(a,h)anthracene	0.66	0.66	100
Indeno(1,2,3-cd)pyrene	0.9	4	500
Methanol	NS	NS	NS
TPH*	10,000		

\*: Soil cleanup criteria listed reflects the Total Organic Carbon. There is no specific soil cleanup criteria for TPH.

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO. 6 FUEL OIL USTs (ABANDONED IN PLACE)

AREAS OF CONCERN	
AOC #	DESCRIPTION
3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	TWO 20,000-GALLON NO. 6 AND ONE 5,000-GALLON NO. 2 FUEL OIL USTs (REMOVED)

REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.

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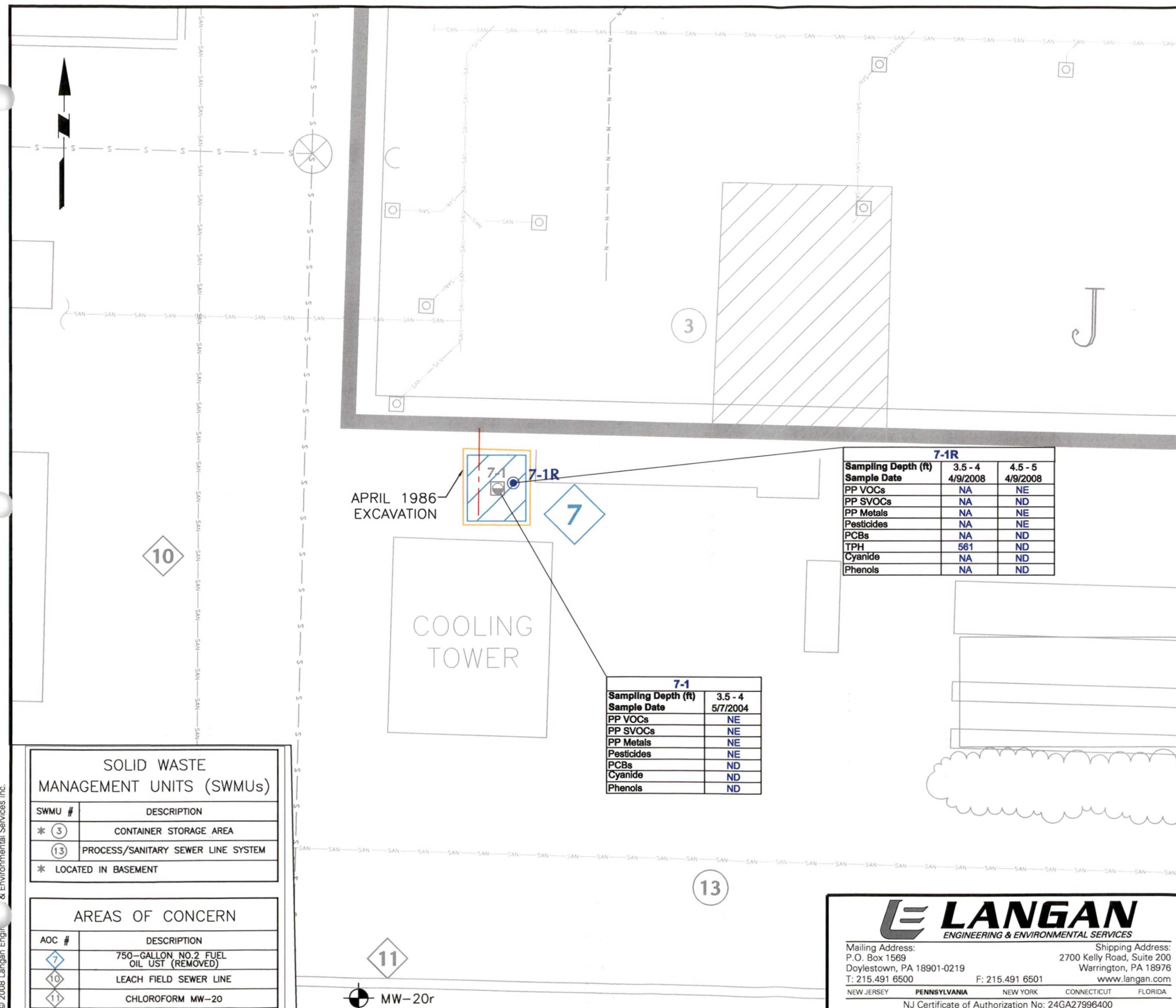
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Project SOIL SAMPLE LOCATIONS AND RESULTS AT AOC-5 (FORMER FUEL OIL USTs EAST OF BUILDING D) ORTHO-CLINICAL DIAGNOSTICS				
RARITAN	Date	Scale	Figure	NEW JERSEY
Project No. 3568401	11/12/08	1" = 10'	7-3	

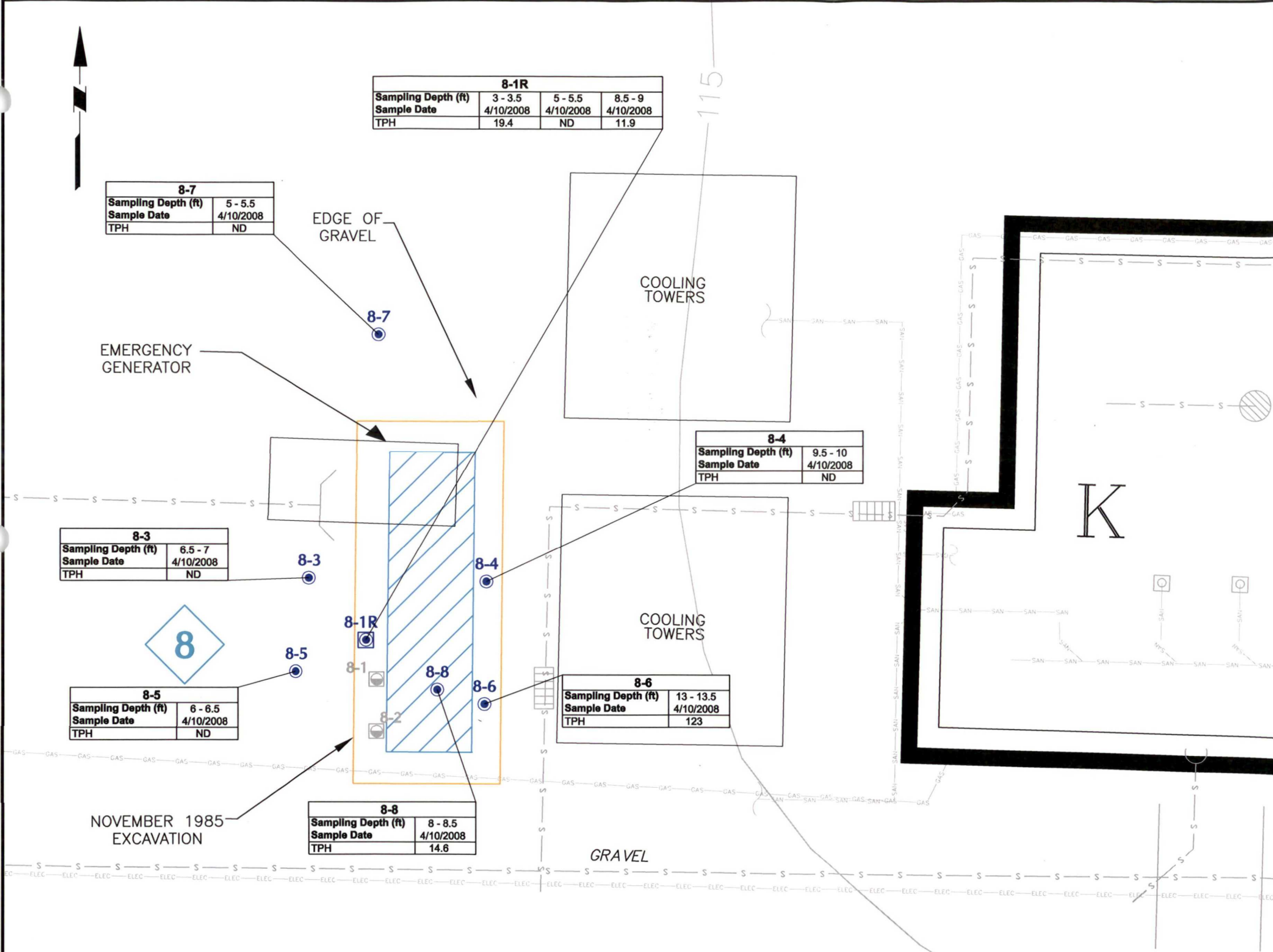
AOC-5 EXCAVATION		
AOC FEATURE:	FILL PORT	FUEL OIL PIPING
DEPTH (below grade):	3 ft.	3.5 - 4.5 ft.
PERIMETER:	100 ft.	60 ft.
AREA:	554 sq. ft.	73 sq. ft.
VOLUME:	61.6 cu. yds. (86.2 tons)	10 cu. yds. (14 tons)
DATE OF EXCAVATION:	5/8/2008	12/8/2006 6/8/2007 6/28/2007







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## LEGEND

- SAN ——— SANITARY SEWER LINE
- ELEC ——— ELECTRIC LINE
- S ——— STORM SEWER WITH CATCH BASIN
- GAS ——— GAS SUPPLY LINE
- 105 ——— GROUND SURFACE ELEVATION CONTOUR (FT. ABOVE MEAN SEA LEVEL)
- 8 ——— AREA OF CONCERN (AOC) 8 (FORMER 10,000-GAL NO. 2 FUEL OIL UST)
- 8 ——— AOC 8 (FORMER 10,000-GAL NO. 2 FUEL OIL UST)
- RFI ——— RFI FILL CHARACTERIZATION SAMPLE LOCATION
- RFI ——— SUPPLEMENTAL RFI SOIL SUPPLY LOCATION
- ESTIMATED LIMITS OF FORMER EXCAVATION
- EDGE OF ASPHALT PAVEMENT
- K ——— SITE BUILDING LABEL

## REFERENCES

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.



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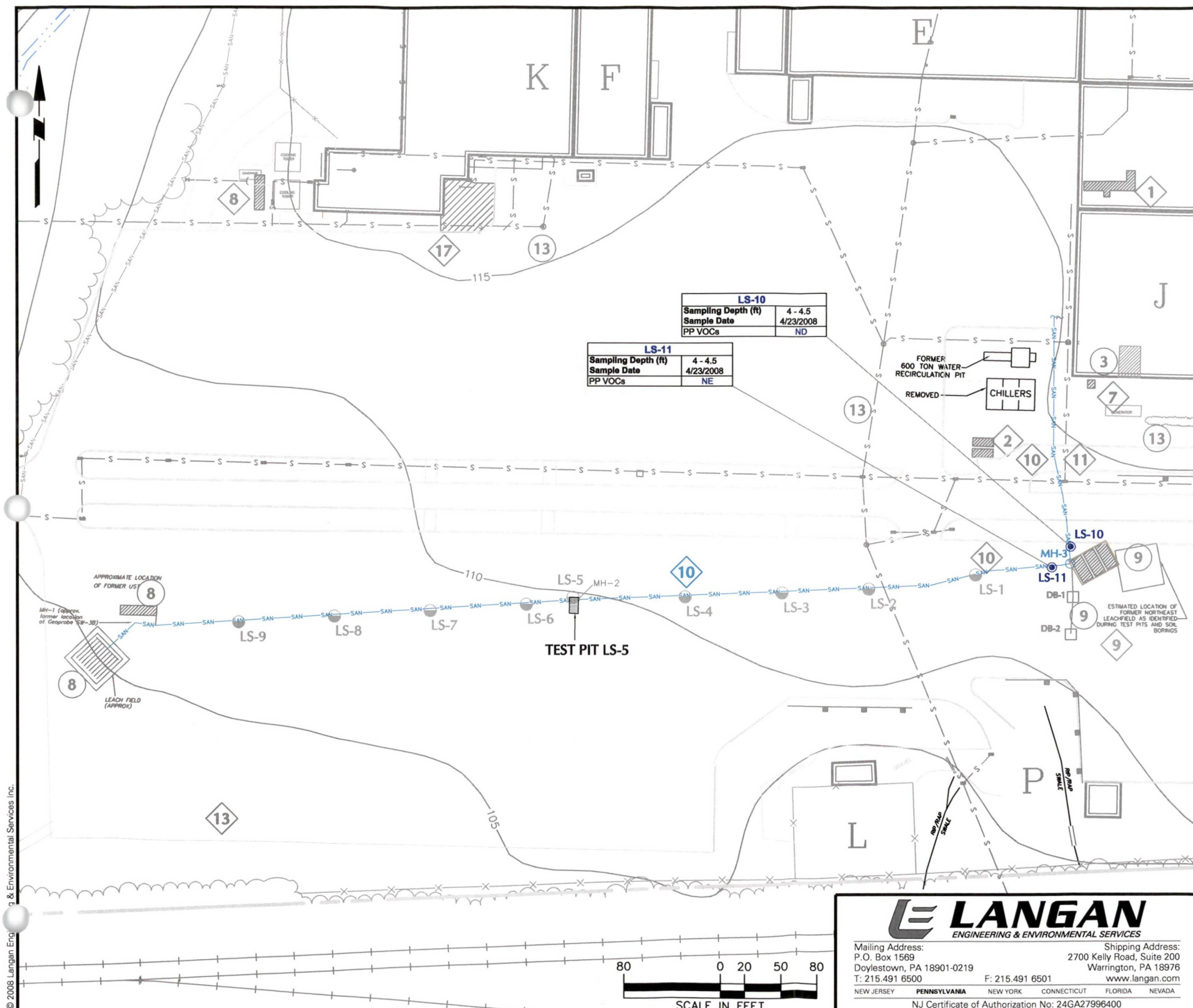
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Project  
**SOIL SAMPLE LOCATIONS AND RESULTS AT AOC-8  
(FORMER 10,000-GAL NO. 2 FUEL OIL UST)  
ORTHO-CLINICAL DIAGNOSTICS**

RARITAN NEW JERSEY

Project No. 3568401	Date 10/07/08	Scale 1" = 10'	Figure 7-5
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**LEGEND**

LEACHFIELD SEWER LINE (AOC-10)

GUARD RAIL

BELOW GRADE STORM SEWER WITH CATCH BASIN

EDGE OF ASPHALT PAVEMENT

SURFACE CONTOUR

AREA OF CONCERN (AOC) DESIGNATION

SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION

LOCATION OF AOC

LOCATION OF SWMU

EXISTING SHALLOW MONITORING WELL

SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WITH CONCENTRATIONS BELOW THE NJDEP SCC

RFI SOIL SAMPLE LOCATION

BUILDING LABEL

NJDEP SCC

ND

NE

UST

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION MAY 12, 1999 SOIL CLEANUP CRITERIA

NOT DETECTED

NO EXCEEDANCE

UNDERGROUND STORAGE TANK

ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)

**REFERENCES**

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
* (3)	CONTAINER STORAGE AREA
(8)	10,000-GALLON WASTE SOLVENT UST
(9)	FORMER NORTHEAST LEACH FIELD
* LOCATED IN BASEMENT	

AREAS OF CONCERN	
AOC #	DESCRIPTION
(1)	SOIL IN BASEMENT OF BUILDING G
(2)	TWO 4,800-GALLON METHANOL USTs (REMOVED)
(7)	750-GALLON NO.2 FUEL OIL UST (REMOVED)
(8)	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
(9)	THREE WASTE SOLVENT USTs (REMOVED)
(10)	LEACH FIELD SEWER LINE
(11)	CHLOROFORM MW-20

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Project

**SOIL SAMPLE RESULTS AT AOC-10 (LEACH FIELD SEWER LINE) ORTHO-CLINICAL DIAGNOSTICS**

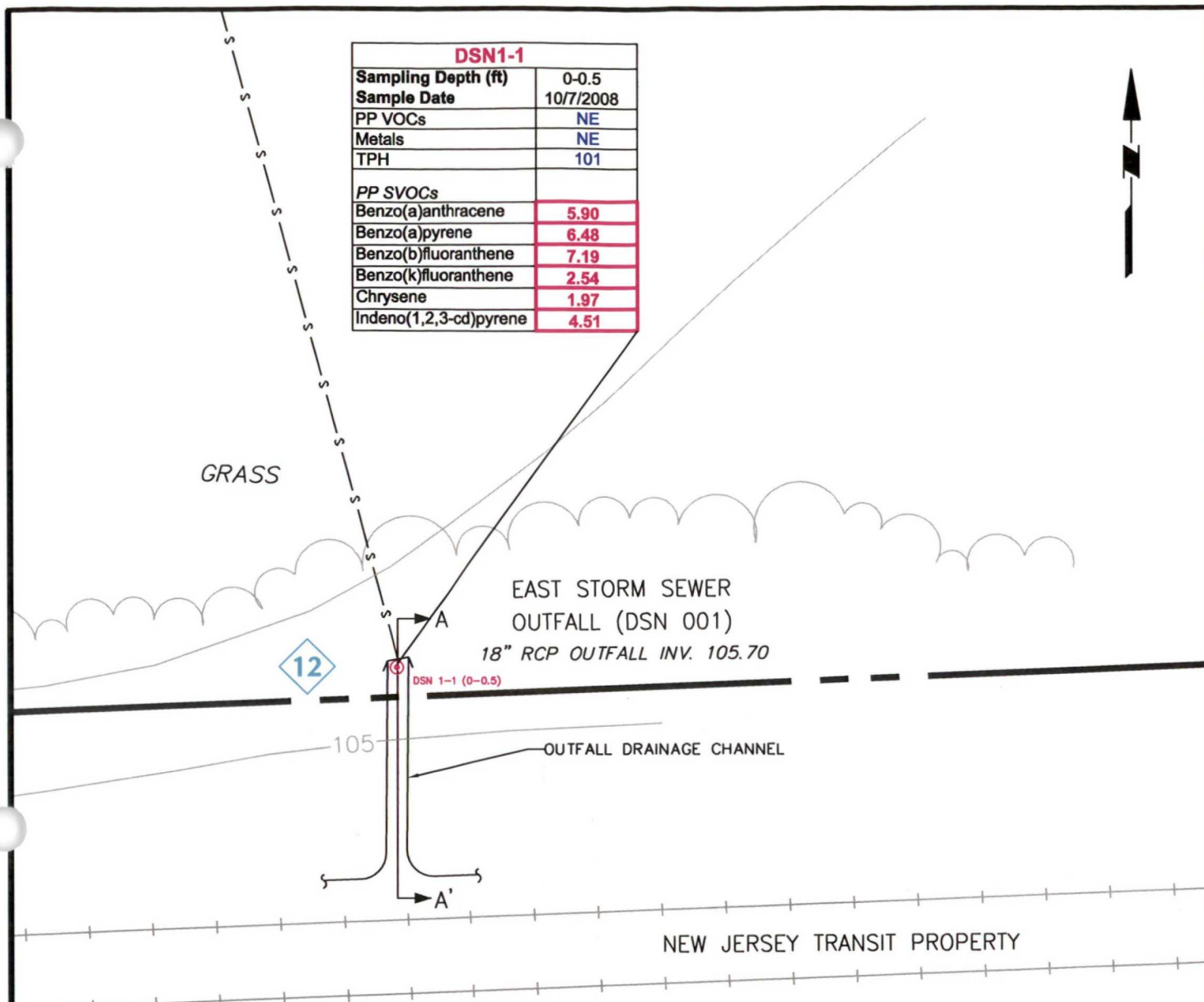
RARITAN NEW JERSEY

Project No.	Date	Scale	Figure
3568401	11/14/08	1" = 80'	7-6

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DSN1-1	
Sampling Depth (ft)	0-0.5
Sample Date	10/7/2008
PP VOCs	NE
Metals	NE
TPH	101
PP SVOCs	
Benzo(a)anthracene	5.90
Benzo(a)pyrene	6.48
Benzo(b)fluoranthene	7.19
Benzo(k)fluoranthene	2.54
Chrysene	1.97
Indeno(1,2,3-cd)pyrene	4.51

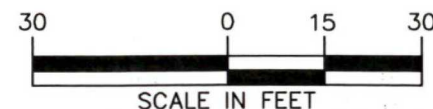


NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
TPH*		10,000	
Benzo(a)anthracene	0.9	4	500
Benzo(a)pyrene	0.66	0.66	100
Benzo(b)fluoranthene	0.9	4	50
Benzo(k)fluoranthene	0.9	4	500
Chrysene	9	40	500
Indeno(1,2,3-cd)pyrene	0.9	4	500

\*: Soil cleanup criteria listed reflects the Total Organic Cap.  
There is no specific soil cleanup criteria for TPH.

## OUTFALL DRAINAGE CHANNEL

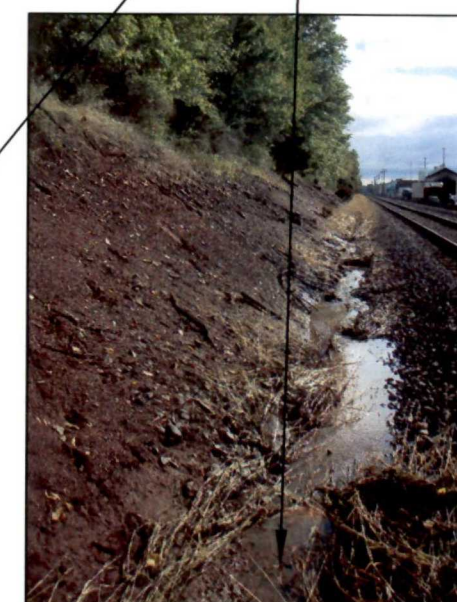
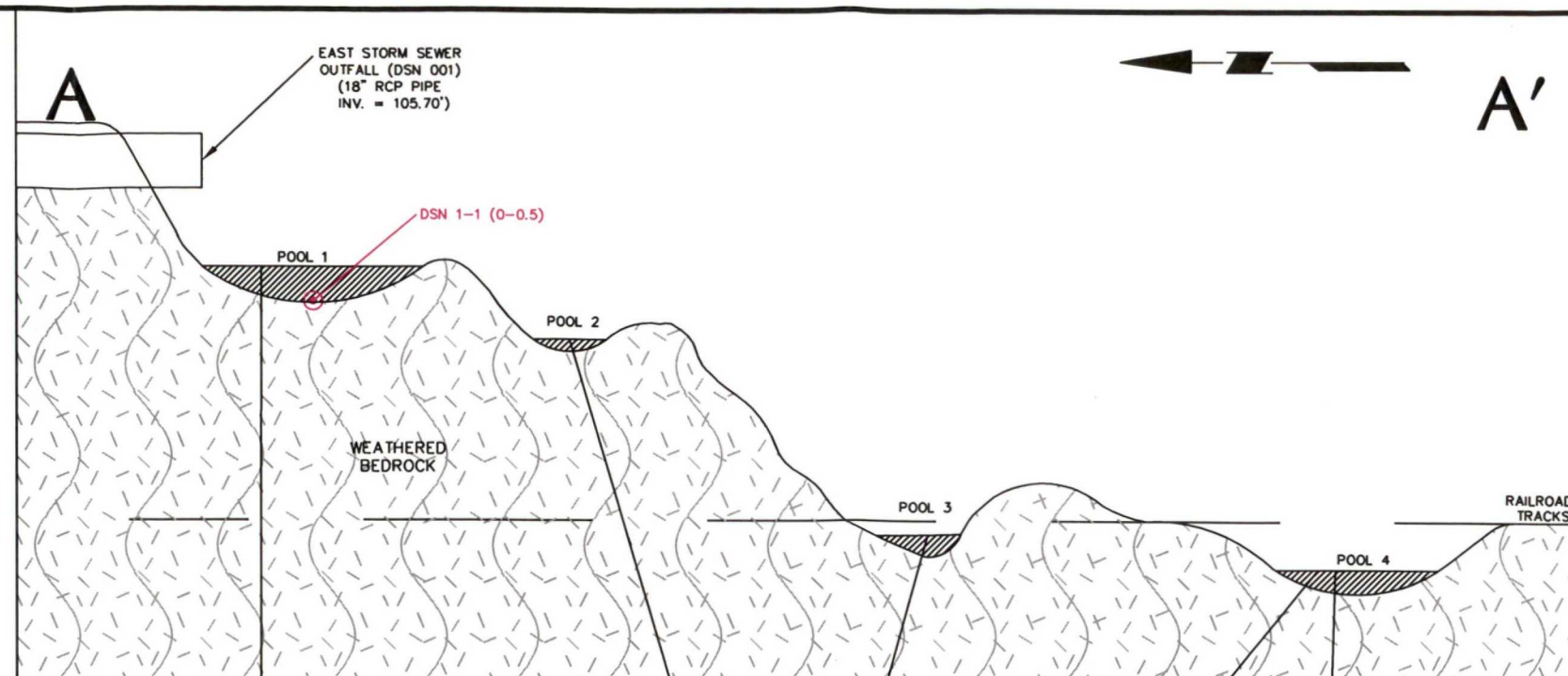
NOTE:  
1. SEE FIGURE 1-2 FOR DRAINAGE SYSTEM LAYOUT



## LEGEND

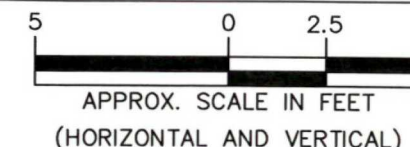
- s— STORM SEWER PIPE
- 105— GROUND SURFACE CONTOUR
- RCP REINFORCED CONCRETE PIPE
- RAILROAD TRACKS
- 12 AREA OF CONCERN 12 (BUILDING D FLOOR DRAIN)
- NE NO EXCEEDANCE

- SOIL SAMPLE LOCATION WITH CONCENTRATIONS EXCEEDING THE MOST STRINGENT NJDEP SOIL CLEANUP CRITERIA
- APPROXIMATE SITE BOUNDARY
- TREE LINE
- CROSS SECTION LINE
- ALL RESULTS ARE SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG)



## CROSS SECTION A-A'

NOTES:  
1. THE OUTFALL DRAINAGE CHANNEL CROSS-SECTIONAL VIEW IS BASED ON APPROXIMATE FIELD MEASUREMENTS  
2. PHOTOS NOT TO SCALE



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## SOIL SAMPLE LOCATIONS AND RESULTS AND CROSS-SECTION AT AOC-12 (BUILDING D FLOOR DRAIN OUTFALL)

Project No. 3568401 Date 11-12-08 Scale AS SHOWN Dwg. No. 7-7

NEW JERSEY





SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
1	INCINERATOR (REMOVED)	1	SOIL IN BASEMENT OF BUILDING G
2	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	2	TWO 4,800-GALLON METHANOL USTs (REMOVED)
3	CONTAINER STORAGE AREA	3	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
4	CONTAINER STORAGE AREA	4	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
5	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	5	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
6	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	6	750-GALLON NO.2 FUEL OIL UST (REMOVED)
7	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	7	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
8	FORMER SOUTHWEST LEACH FIELD/10,000-GALLON WASTE SOLVENT UST (REMOVED)	8	THREE WASTE SOLVENT USTs (REMOVED)
9	FORMER NORTHEAST LEACH FIELD	9	LEACH FIELD SEWER LINE
10	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)	10	CHLOROFORM MW-20
11	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	11	BUILDING D FLOOR DRAIN
12	550-GALLON GASOLINE UST (REMOVED)	12	DIRT TURN AROUND
13	PROCESS/SANITARY SEWER LINE SYSTEM	13	AERIAL PHOTOGRAPH ANOMALY
		14	ETHYLENE GLYCOL RELEASE AT BUILDING M
		15	SOIL IN BUILDING B BASEMENT
		16	BUILDING K ENTRANCE

- NOTES**
- ALL CONCENTRATIONS ARE IN ug/L (MICROGRAMS PER LITER).
  - GROUNDWATER SAMPLES COLLECTED USING THE PDB SAMPLING METHOD SINCE 2003.

- REFERENCES**
- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY MCLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

- LEGEND**
- EXISTING SHALLOW MONITORING WELL
  - EXISTING DEEP MONITORING WELL
  - ENHANCED BIOREMEDIATION INJECTION WELL
  - AREA OF CONCERN (AOC) DESIGNATION
  - SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
  - LOCATION OF AOC OR SWMU
  - SANITARY SEWER WITH MANHOLE
  - IRON INJECTION PILOT STUDY WELL
  - APPROXIMATE SITE BOUNDARY
  - ADJACENT PROPERTY BOUNDARY
  - FENCE LINE
  - EDGE OF ASPHALT PAVEMENT
  - DRAINAGE DITCH
  - GUARD RAIL
  - TREE LINE
  - TREES
  - SITE BUILDING LABEL
  - NOT SAMPLED
  - NOT DETECTED
  - GROUNDWATER QUALITY STANDARD (7/8/08)
  - CHLOROFORM CONCENTRATION IS EQUAL TO OR BELOW NJDEP GQS
  - CHLOROFORM CONCENTRATION EXCEEDS NJDEP GQS
  - SHALLOW MONITORING WELLS SAMPLED IN 2008 WITH CHLOROFORM BELOW NJDEP CLASS IIA GQS (70 UG/L)
  - DEEP MONITORING WELLS SAMPLED IN 2008 WITH CHLOROFORM BELOW NJDEP CLASS IIA GQS (70 UG/L)
  - DATA NOT AVAILABLE AT TIME OF DRAWING PREPARATION

Project

**ORTHOClinical**

**DIAGNOSTICS**

RARITAN

NEW JERSEY

Drawing Title

**CHLOROFORM CONCENTRATIONS IN GROUNDWATER (1999-2008)**

Project No.

3568401

Date

11/18/08

Scale

1" = 80'

Drn. By

SK TK

Chkd. By

RL

Date

Description

No.

Revisions

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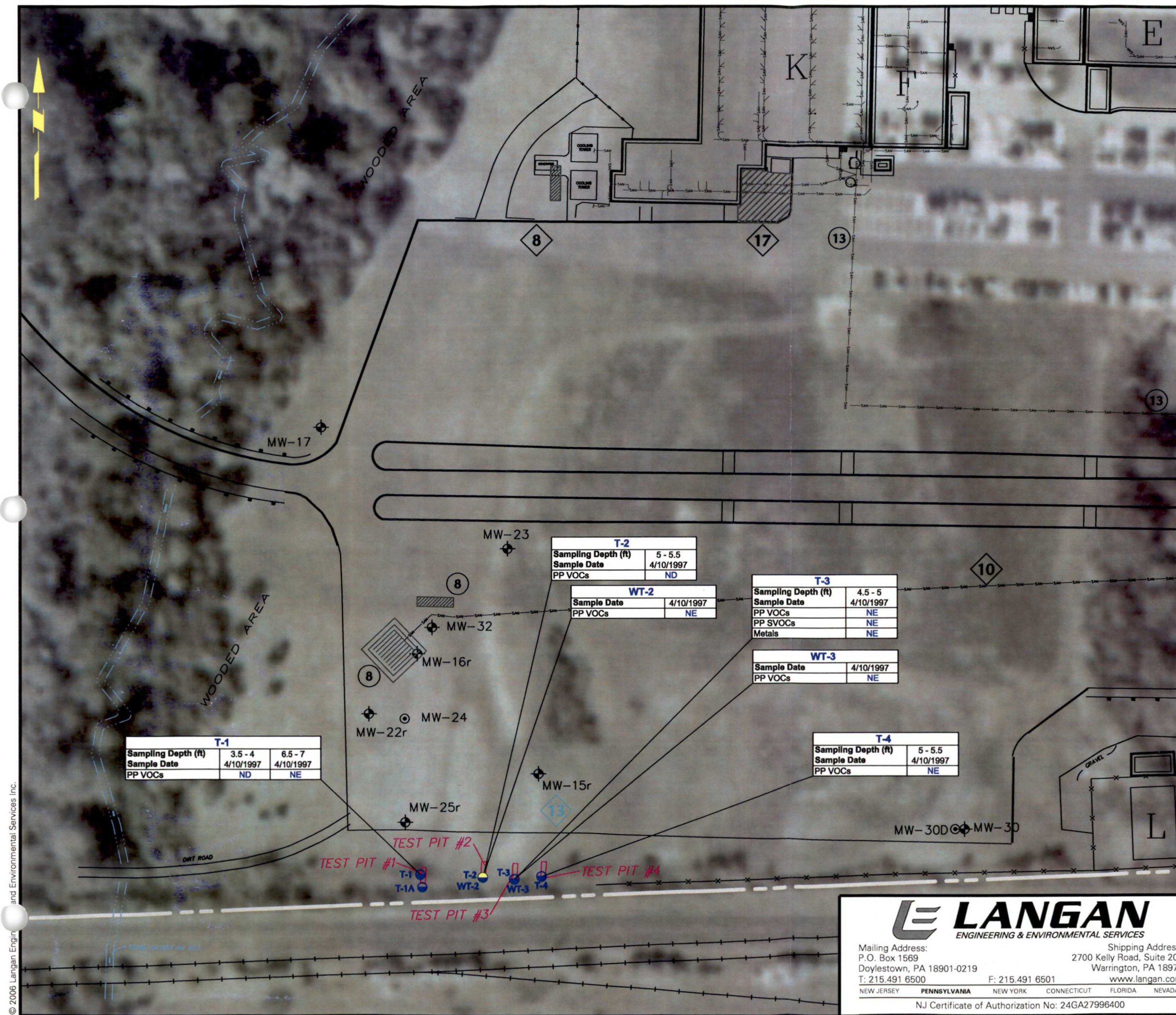
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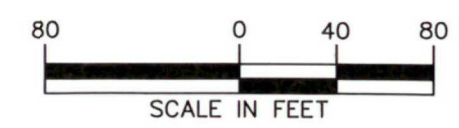
**LEGEND**

- EXISTING SHALLOW MONITORING WELL
- EXISTING DEEP MONITORING WELL
- AREA OF CONCERN (AOC) DESIGNATION
- SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- LOCATION OF AOC
- LOCATION OF SWMU
- 1997 SOIL SAMPLE LOCATION
- 1997 SOIL AND GROUNDWATER GRAB SAMPLE LOCATION
- EDGE OF ASPHALT PAVEMENT
- DRAINAGE DITCH
- BELOW GROUND SURFACE SANITARY SEWER LINE (SWMU-13)
- BELOW GROUND SURFACE LEACH FIELD SEWER LINE (AOC-10)
- SITE BUILDING LABEL
- APPROXIMATE SITE BOUNDARY
- NE
- NO EXCEEDANCE

- REFERENCES**
  - APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.
  - AERIAL SHOWN IS FROM 1956.

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
8	FORMER SOUTHWEST LEACH FIELD/ 10,000-GALLON WASTE SOLVENT UST (REMOVED)
13	PROCESS/SANITARY SEWER LINE SYSTEM

AREAS OF CONCERN	
AOC #	DESCRIPTION
8	10,000-GALLON NO.2 FUEL OIL UST (REMOVED)
10	LEACH FIELD SEWER LINE
13	DIRT TURN AROUND



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**SOIL SAMPLE LOCATIONS AND RESULTS AT AOC-13 (DIRT TURN AROUND)**  
ORTHO-CLINICAL DIAGNOSTICS

RARITANNEW JERSEY

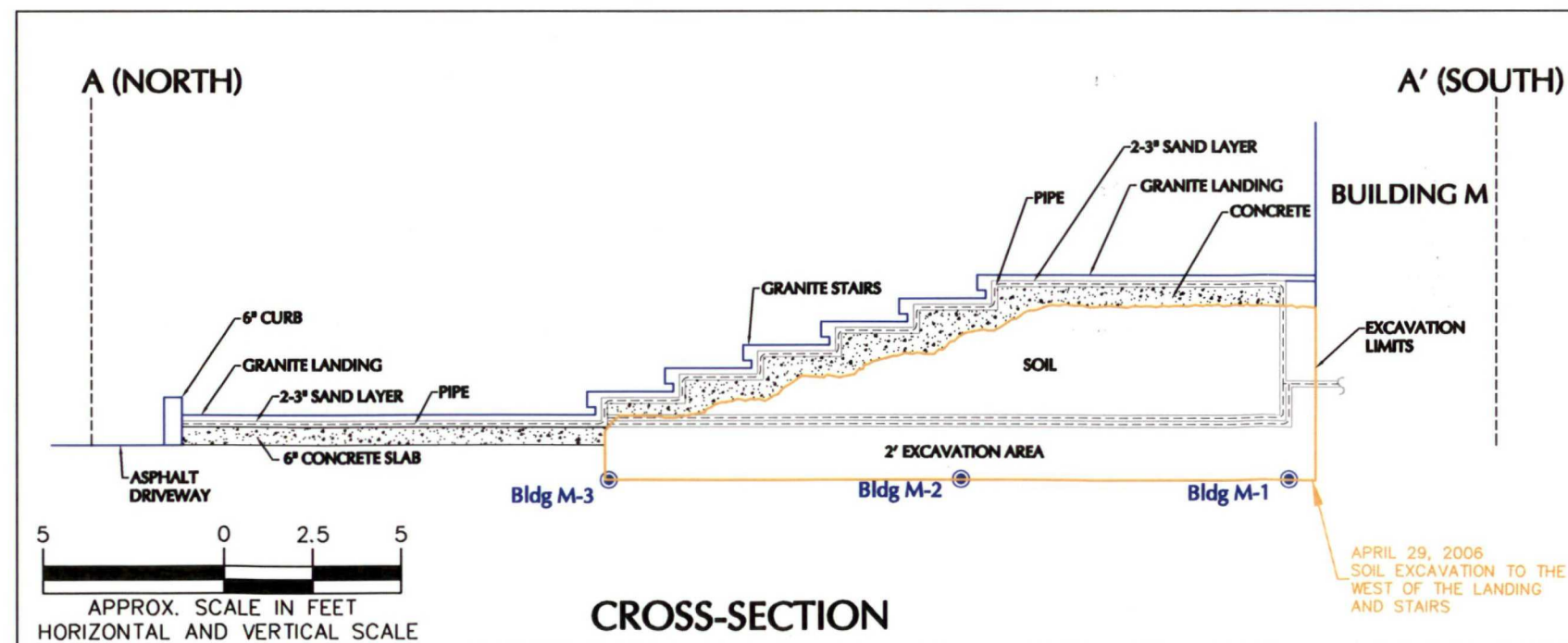
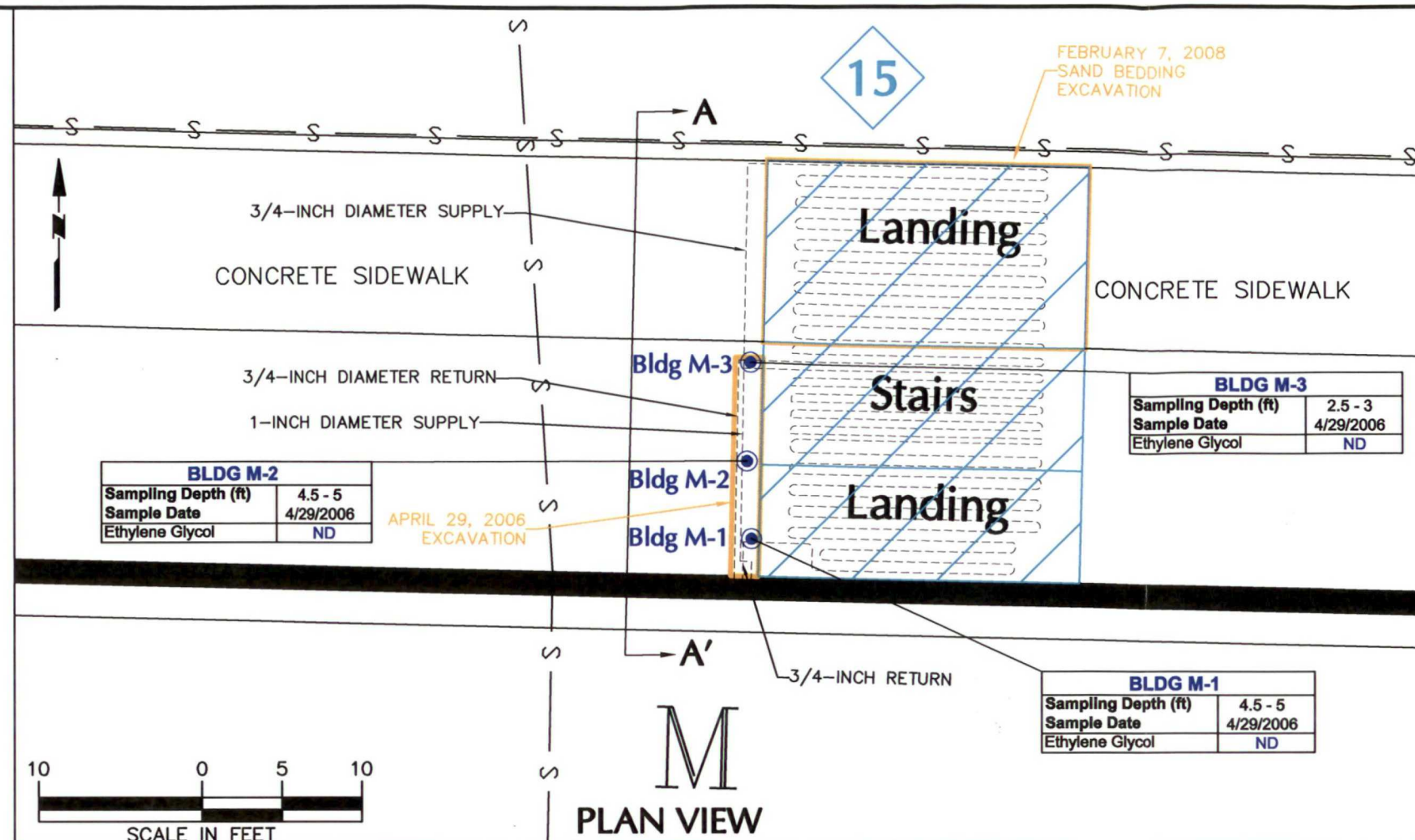
Project No.3568401

Date11-13-08

Scale1" = 80'

Figure7-9





## LEGEND

- s — ■ BELOW GRADE STORM SEWER WITH CATCH BASIN
- 15 AREA OF CONCERN (AOC) 15 (ETHYLENE GLYCOL AT BUILDING M)
- ⊙ SOIL SAMPLE LOCATION
- ===== EDGE OF ASPHALT PAVEMENT
- M SITE BUILDING LABEL
- 2006 AREA OF SOIL EXCAVATION
- SNOW-MELTING SYSTEM PIPING
- NS NOT DETECTED

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Ethylene Glycol	NS	NS	NS

NS = NOT SPECIFIED

AOC-15 EXCAVATION		
AOC FEATURE:	Lower Landing	Piping
DEPTH (below grade):	0.2 ft.	3.5 ft.*
PERIMETER:	62 ft.	29 ft.
AREA:	220 sq. ft.	23 sq. ft.
VOLUME:	1.7 cu. yds. (2.2 tons)	2.4 cu. yds. (3.4 tons)
DATE OF EXCAVATION:	2/7/2006	4/29/2006

\*Excavation depth was 3.5 feet on average. Due to a surface slope, the excavation depth ranged from 2.5 to 4.7 feet.

## REFERENCES

1. SNOW MELTING SYSTEM BASED ON A FIGURE PREPARED BY BLOCKER CORPORATION OF UNION, NEW JERSEY ENTITLED "SNOW MELTING - MAIN ENTRANCE - BLDG. 'M'" DATED FEBRUARY 2, 1970, REVISED JULY 30, 1970.



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Project

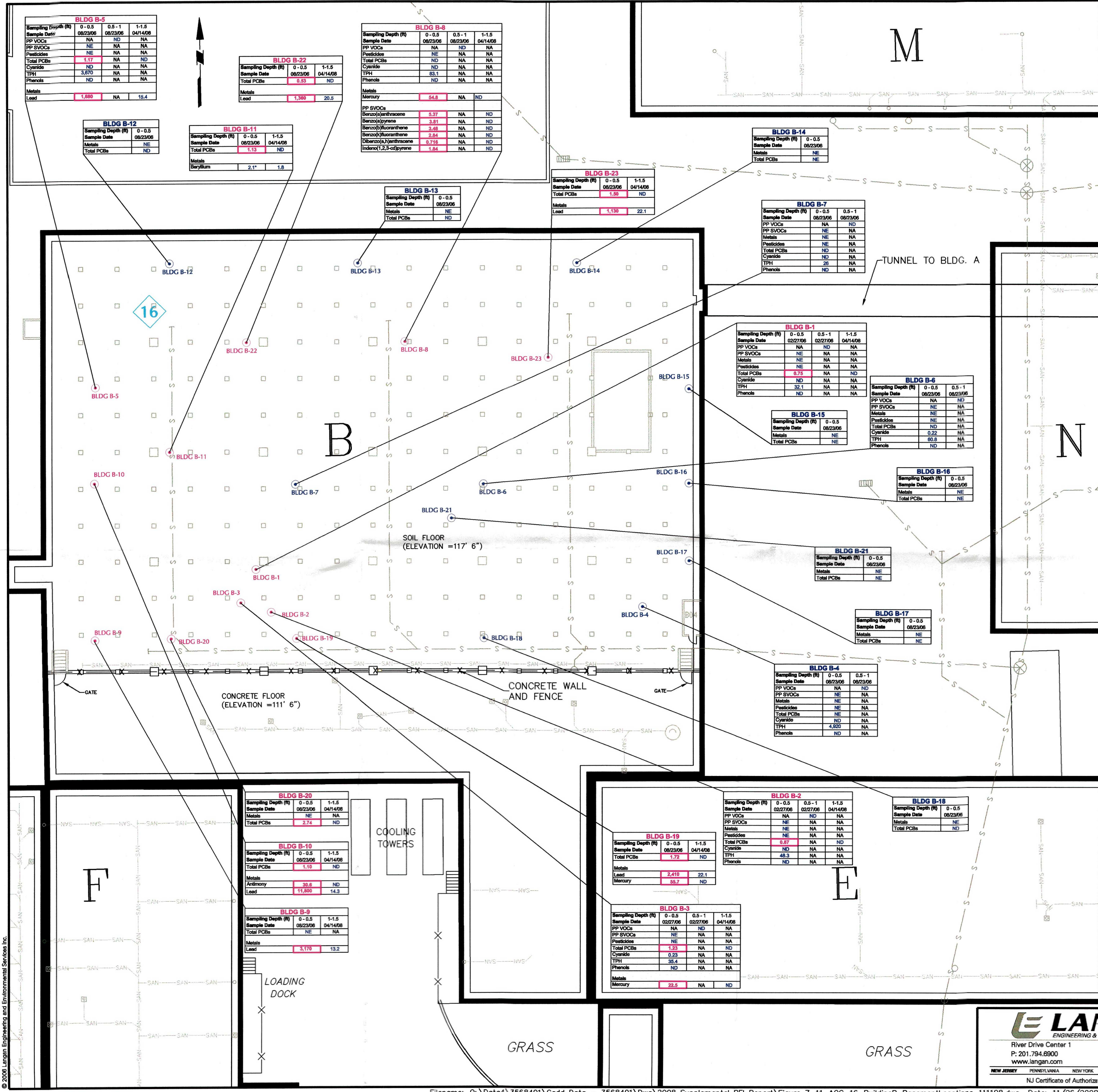
SOIL SAMPLE LOCATIONS AND RESULTS FOR THE  
ETHYLENE GLYCOL RELEASE AT BUILDING M (AOC-15)  
ORTHO-CLINICAL DIAGNOSTICS

RARITAN

NEW JERSEY

Project No.	Date	Scale	Figure
3568401	11-17-08	AS SHOWN	7-10





LEGEND

- SAN — BELOW GROUND SANITARY SEWER LINE
- S — BELOW GROUND STORM SEWER LINE
- x — FENCE LINE
- EDGE OF ASPHALT
- N SITE BUILDING / STRUCTURE LABEL
- BUILDING STRUCTURAL COLUMN
- FLOOR DRAINS OR RISERS
- 16 AREA OF CONCERN 16 (SOIL IN BUILDING B BASEMENT)
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WHERE CONSTITUENT CONCENTRATIONS ARE BELOW THE NJDEP SCC
- SUPPLEMENTAL RFI SOIL SAMPLE LOCATION WHERE CONSTITUENT CONCENTRATIONS EXCEED THE MOST STRINGENT NJDEP SCC
- 6.6 SOIL CONCENTRATION EXCEEDS THE MOST STRINGENT NJDEP SCC
- NJDEP SCC NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION SOIL CLEANUP CRITERIA (5/12/99)
- MG/KG MILLIGRAMS PER KILOGRAM
- NA NOT ANALYZED
- ND NOT DETECTED
- NE NO EXCEEDANCE
- ALL SOIL SAMPLE RESULTS ARE PRESENTED IN MG/KG

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Total PCBs	0.49	2	50
Antimony	14	340	NS
Beryllium*	2 (16)	2 (140)	NS
Lead	400	600	NS
Mercury	14	270	NS
Benzo(a)anthracene	0.9	4	500
Benzo(a)pyrene	0.66	0.66	100
Benzo(b)fluoranthene	0.9	4	50
Benzo(k)fluoranthene	0.9	4	500
Dibenzo(a,h)anthracene	0.66	0.66	100
Indeno(1,2,3-cd)pyrene	0.9	4	500

\*THE BERYLLIUM STANDARDS FOR RESIDENTIAL AND NON-RESIDENTIAL DIRECT CONTACT WERE INCREASED TO 16 AND 140 MG/KG, RESPECTIVELY, WITH THE ADOPTION OF THE JUNE 2, 2008 NJDEP SOIL REMEDIATION STANDARDS.

REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC.
- SAMPLE LOCATIONS ARE BASED ON FIELD MEASUREMENTS.

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Project **SOIL SAMPLE LOCATIONS AND RESULTS - BUILDING B BASEMENT (AOC-16) ORTHO-CLINICAL DIAGNOSTICS**

RARITAN NEW JERSEY

Project No. 3568401 Date 11-12-08 Scale 1" = 20' Figure 7-11

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K-1				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	06/17/08	06/17/08	07/25/08	
Pesticides	NE	NA	NA	
PAHs				
Benzo(a)anthracene	1.58	3.52	ND	
Benzo(a)pyrene	1.82	3.40	ND	
Benzo(b)fluoranthene	1.90	3.16	ND	
Benzo(k)fluoranthene	1.25	3.08	ND	
Ideno(1,2,3-cd)pyrene	1.05	1.74	ND	

K-9				
Sampling Depth (ft)	0 - 0.5	1 - 1.5		
Sample Date	07/24/08	07/25/08		
Chlordane	0.082 U	NA		
Dieldrin	0.0082 U	NA		
PAHs				
Benzo(a)pyrene	0.81	0.11		

K-2				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	06/17/08	06/17/08	07/25/08	
PAHs				
Benzo(a)anthracene	1.08	0.583	ND	
Benzo(a)pyrene	1.24	0.557	ND	
Benzo(b)fluoranthene	1.19	0.481	ND	
Benzo(k)fluoranthene	1.21	0.417	ND	
Pesticides				
Chlordane	0.633	ND	NA	
Dieldrin	0.346	0.0071	NA	

K-8				
Sampling Depth (ft)	1 - 1.5	3 - 3.5		
Sample Date	07/24/08	07/25/08		
PAHs				
Benzo(a)anthracene	1.9	ND		
Benzo(a)pyrene	1.5	ND		
Benzo(b)fluoranthene	1.2	ND		
Benzo(k)fluoranthene	1.5	ND		

K-7				
Sampling Depth (ft)	1 - 1.5			
Sample Date	07/24/08			
PAHs	NE			

K-4				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	06/17/08	06/17/08	07/25/08	
Pesticides	NE	NA	NA	
PAHs				
Benzo(a)pyrene	0.677	0.201	ND	

K-10				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	07/24/08	07/25/08	07/25/08	
Chlordane	ND	NA	NA	
Dieldrin	ND	NA	NA	
PAHs				
Benzo(a)anthracene	2.4	0.82	0.096	
Benzo(a)pyrene	2.9	0.86	0.067	
Benzo(b)fluoranthene	2.9	0.85	0.052	
Benzo(k)fluoranthene	3.5	1.2	0.077	
Ideno(1,2,3-cd)pyrene	1.3	0.44	0.033 J	

K-5				
Sampling Depth (ft)	0 - 0.5	1 - 1.5		
Sample Date	06/17/08	07/25/08		
PAHs	NE	NE		
Pesticides	NE	NA		

K-3				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	06/17/08	06/17/08	07/25/08	
Pesticides	NE	NA	NA	
PAHs				
Benzo(a)pyrene	1.00	0.319	ND	
Benzo(b)fluoranthene	1.13	0.253	ND	

K-14				
Sampling Depth (ft)	0 - 0.5	3 - 3.5		
Sample Date	07/24/08	07/25/08		
PAHs				
Benzo(a)anthracene	2.9	ND		
Benzo(a)pyrene	3.4	ND		
Benzo(b)fluoranthene	3.5	ND		
Benzo(k)fluoranthene	4	ND		
Ideno(1,2,3-cd)pyrene	1.3	ND		

K-11				
Sampling Depth (ft)	0 - 0.5	1 - 1.5		
Sample Date	07/24/08	07/25/08		
PAHs				
Benzo(a)pyrene	0.78	ND		
Benzo(k)fluoranthene	0.93	ND		

K-6				
Sampling Depth (ft)	0 - 0.5	1 - 1.5		
Sample Date	06/17/08	07/25/08		
PAHs				
Benzo(a)anthracene	2.70	0.44		
Benzo(a)pyrene	3.65	0.34		
Benzo(b)fluoranthene	3.41	0.28		
Benzo(k)fluoranthene	3.39	0.38		
Ideno(1,2,3-cd)pyrene	2.25	0.19		

K-12				
Sampling Depth (ft)	0 - 0.5	3 - 3.5		
Sample Date	07/24/08	07/25/08		
PAHs				
Benzo(a)anthracene	5.1	0.037 U		
Benzo(a)pyrene	4.8	0.037 U		
Benzo(b)fluoranthene	5.2	0.037 U		
Benzo(k)fluoranthene	5.8	0.037 U		
Ideno(1,2,3-cd)pyrene	1.6	0.037 U		

K-13				
Sampling Depth (ft)	0 - 0.5	1 - 1.5	3 - 3.5	
Sample Date	07/24/08	07/24/08	07/25/08	
PAHs				
Benzo(a)anthracene	33	12	0.180	
Benzo(a)pyrene	26	8.4	0.130	
Benzo(b)fluoranthene	24	8.9	0.099	
Benzo(k)fluoranthene	27	8.4	0.130	
Chrysene	31	12	0.170 J	
Dibenz(a,h)anthracene	2.7	1.7	ND	
Ideno(1,2,3-cd)pyrene	8.6	4.5	0.052	

AOC-17 EXCAVATION			
DEPTH (bgs):	1 ft.	3 ft.	Total
PERIMETER:	108 ft.	257 ft.	465 ft.
AREA:	536 sq. ft.	1,184 sq. ft.	1,720 sq. ft.
VOLUME:	19.9 cu. yds.	131.6 cu. yds.	185 cu. yds. (~259.5 tons)a
DATE OF EXCAVATION:	August 18 and 19, 2008		

a: The total volume of soils excavated is greater than the sum of the 1-foot and 3-foot excavation volumes shown above because excavations were completed to a deeper depth than indicated to ensure impacted soils were removed. In addition, soil was removed from around the sanitary sewer line to complete a modification to allow for construction of the handicap ramp. Precise depth measurements could not be obtained because the ground surface was sloped.

## LEGEND

- SANITARY SEWER LINE
- STORM SEWER
- GAS LINE
- ELECTRIC LINE
- CONCRETE CURB
- K SITE BUILDING/STRUCTURE LABEL
- 17 AREA OF CONCERN (AOC) DESIGNATION
- FLOOR DRAIN
- CLEAN OUT OR RISER
- SOIL SAMPLE LOCATION WHERE CONSTITUENT CONCENTRATIONS ARE BELOW THE NJDEP SCC
- SOIL SAMPLE LOCATION WHERE CONSTITUENT CONCENTRATIONS EXCEED THE MOST STRINGENT NJDEP SCC
- NJDEP SCC NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION SOIL CLEANUP CRITERIA (5/12/99)
- PAHs POLYNUCLEAR AROMATIC HYDROCARBONS
- 1.08 CONCENTRATION EXCEEDS THE NJDEP SCC
- 0.583 CONCENTRATION BELOW THE NJDEP SCC
- AREA OF EXCAVATION (DEPTH = APPROX. 1 FOOT)
- AREA OF EXCAVATION (DEPTH = APPROX. 3 FEET)
- U NOT DETECTED ABOVE REFERENCED REPORTING LIMIT
- NA NOT ANALYZED FOR SPECIFIC COMPOUND
- NE NO EXCEEDANCE
- J ESTIMATED CONCENTRATION AT OR BELOW THE REPORTING LIMIT
- ALL CONCENTRATIONS ARE SHOWN IN MG/KG (MILLIGRAMS PER KILOGRAM)

NJDEP Soil Cleanup Criteria May 12, 1999	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/kg)	Impact to Groundwater (mg/kg)
Benzo(a)anthracene	0.9	4	500
Benzo(a)pyrene	0.66	0.66	100
Benzo(b)fluoranthene	0.9	4	50
Benzo(k)fluoranthene	0.9	4	500
Chlordane	NS	NS	NS
Chrysene	9	40	500
Dibenz(a,h)anthracene	0.66	0.66	100
Dieldrin	0.042	0.18	50
Ideno(1,2,3-cd)pyrene	0.9	4	500

## REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC AND ORTHO-CLINICAL DIAGNOSTICS.



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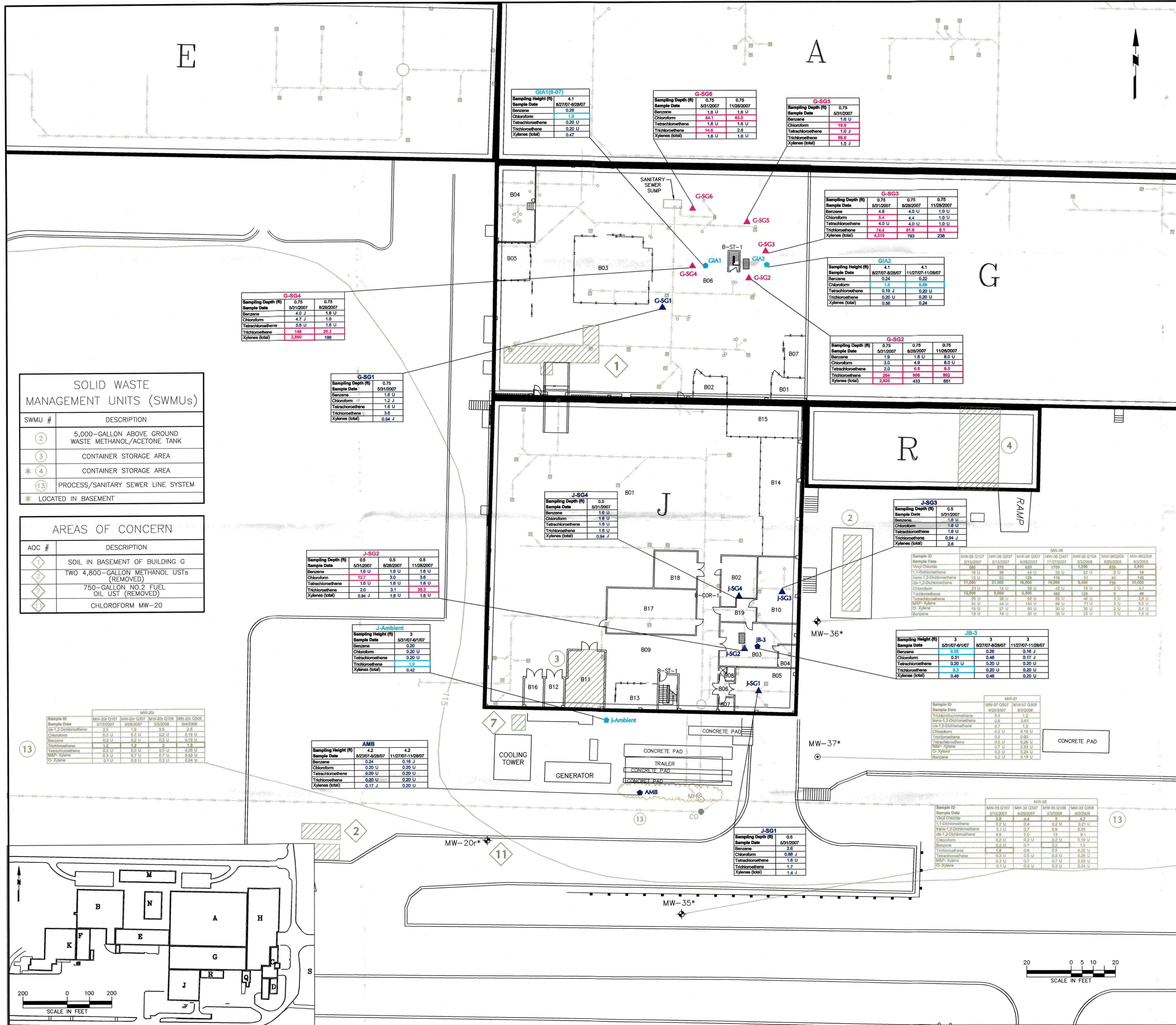
NJ Certificate of Authorization No. 24GAZ7996400

Project  
**SOIL SAMPLE LOCATIONS AND RESULTS  
BUILDING K ENTRANCE (AOC-17)  
ORTHO-CLINICAL DIAGNOSTICS**

RARITAN NEW JERSEY

Project No. 3568401 Date 11/06/08 Scale 1" = 10' Figure 7-12





LEGEND

- BELOW GROUND SANITARY SEWER LINE
- GROUND SURFACE ELEVATION CONTOUR (FT. ABOVE MEAN SEAL LEVEL)
- EDGE OF ASPHALT PAVEMENT
- GUARD RAIL
- FENCE
- FLOOR DRAINS
- CLEAN OUT OR RISER
- B17 BUILDING ROOM NUMBER
- G SITE BUILDING LABEL
- EXISTING SHALLOW MONITORING WELL
- EXISTING DEEP MONITORING WELL
- 2 SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- 11 AREA OF CONCERN (AOC) DESIGNATION
- SUB-SLAB SOIL GAS SAMPLE LOCATION WITH RESULTS EXCEEDING NJDEP NON-RESIDENTIAL SOIL GAS SCREENING LEVELS DURING EVERY SAMPLING EVENT
- SUB-SLAB SOIL GAS SAMPLE LOCATION WITH RESULTS BELOW NJDEP NON-RESIDENTIAL SOIL GAS SCREENING LEVELS DURING ONE OR MORE SAMPLING EVENTS.
- INDOOR AIR OR AMBIENT AIR SAMPLE LOCATION WITH RESULTS EXCEEDING NJDEP NON-RESIDENTIAL INDOOR AIR SCREENING LEVELS DURING EVERY SAMPLING EVENT
- INDOOR AIR OR AMBIENT AIR SAMPLE LOCATION WITH RESULTS BELOW NJDEP NON-RESIDENTIAL INDOOR AIR SCREENING LEVELS DURING ONE OR MORE SAMPLING EVENTS.
- CONCENTRATION EXCEEDS NJDEP NON-RESIDENTIAL SOIL GAS SCREENING LEVELS
- CONCENTRATION EXCEEDS NJDEP NON-RESIDENTIAL INDOOR AIR SCREENING LEVELS (INDOOR AIR SAMPLE OR AMBIENT AIR SAMPLE)
- CONCENTRATION EXCEEDS NJDEP CLASS II A GROUNDWATER QUALITY STANDARDS
- LOCATION OF FORMER LYOPHILIZER
- STAIRS
- PPBV PARTS PER BILLION BY VOLUME
- J ESTIMATED CONCENTRATION AT OR BELOW REPORTING LIMIT
- U NOT DETECTED ABOVE REFERENCED REPORTING LIMIT
- \* 2007 AND 2008 GROUNDWATER ANALYTICAL RESULTS ARE INCLUDED FOR REFERENCE

ALL SUB-SLAB AND AIR RESULTS ARE REPORTED IN PPBV.  
ALL GROUNDWATER RESULTS ARE REPORTED IN UG/L.

Compound	NJDEP March 2007 Soil Gas Screening Level Non-Residential (ppbv)	NJDEP March 2007 Indoor Air Screening Level Non-Residential (ppbv)	OSHA Permissible Exposure Limits (ppbv)
Benzene	8	0.5	1,000 (TWA)
Chloroform	5	0.5	50,000 (TWA)
Tetrachloroethene	5	0.5	100,000 (C)
Trichloroethene	5	0.5	100,000 (TWA)
Xylenes (total)	1,800	35	100,000 (TWA)

TWA: Time Weighted Average for up to a 10-hour work day during a 40-hour work week  
C: Ceiling concentrations that cannot be exceeded

Compound	Higher of PQL and GQS (ug/L)
cis-1,2-Dichloroethene	70
Chloroform	70
Benzene	1
Trichloroethene	1
Vinyl Chloride	1
1,1-Dichloroethene	1
trans-1,2-Dichloroethene	100
m,p-Xylenes	1,000
Trichlorofluoromethane	2,000
Tetrachloroethene	1
O-Xylenes	1,000

PQL: Practical Quantitation Level  
GQS: NJDEP Class II A Groundwater Quality Standard (7/7/08)  
a: Value listed reflects the standard for Total Xylenes

REFERENCES

- APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

ORTHO-CLINICAL  
DIAGNOSTICS

RARITAN NEW JERSEY

Drawing Title

SUB-SLAB SOIL GAS AND INDOOR AIR  
SAMPLE LOCATIONS AND RESULTS IN  
THE BASEMENTS OF BUILDING G AND J

Date

Description

No.

Revisions

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Job No.  
3568401

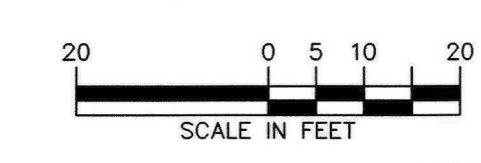
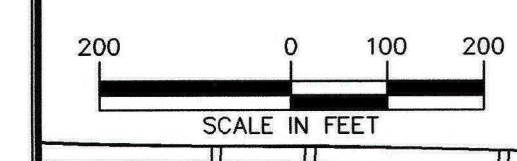
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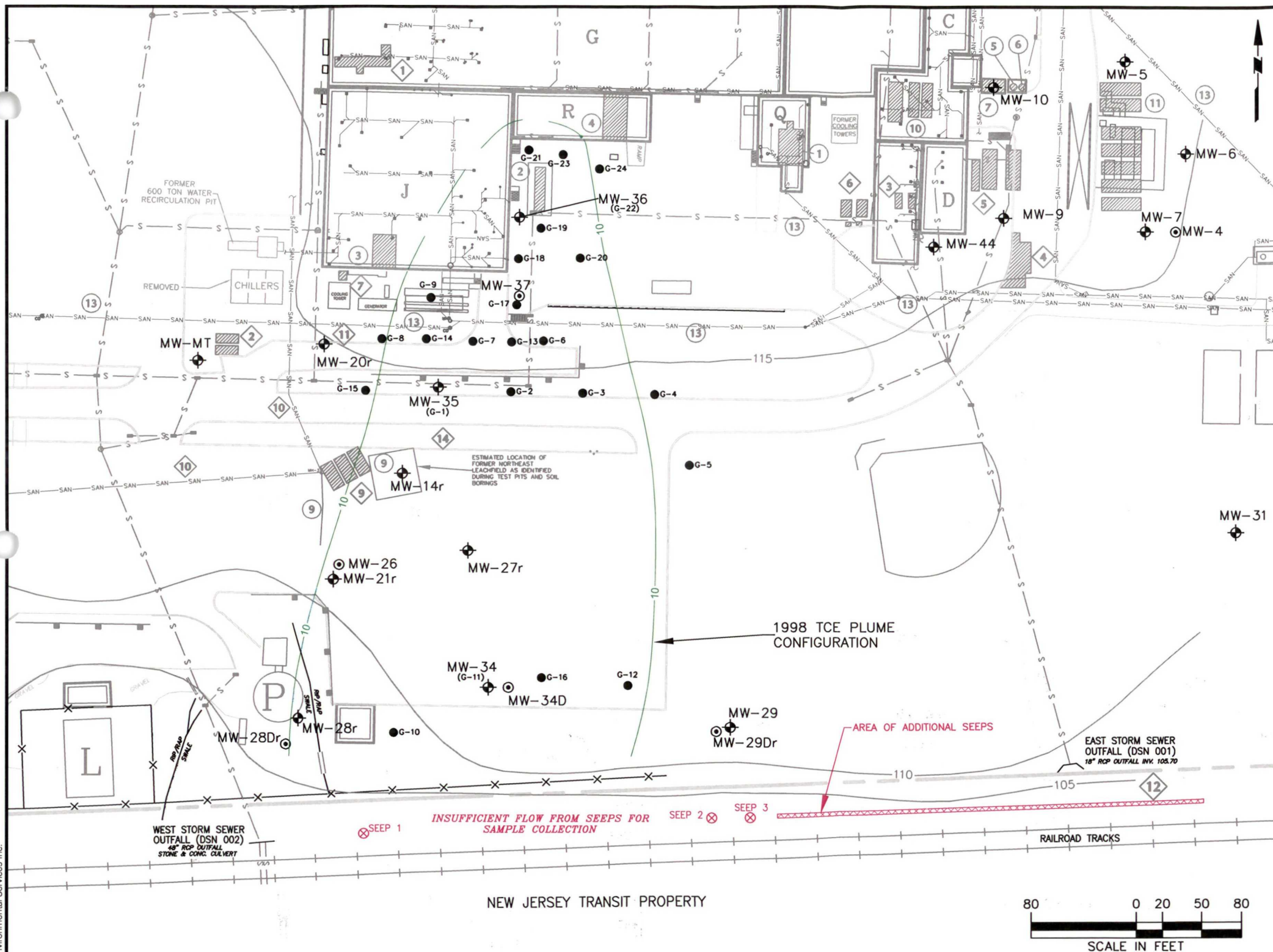
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FIGURE  
9-1







### LEGEND

- |   |  |
|---|--|
|  | BELOW GRADE SANITARY SEWER LINE                |
|  | BELOW GRADE STORM SEWER WITH CATCH BASIN       |
|  | EDGE OF ASPHALT PAVEMENT                       |
|  | AREA OF CONCERN (AOC) DESIGNATION              |
|  | SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION |
|  | LOCATION OF AOC                                |
|  | LOCATION OF SWMU                               |
|  | EXISTING SHALLOW MONITORING WELL               |
|  | EXISTING DEEP MONITORING WELL                  |
|  | 1998 TCE ISOPLETH ( $\mu\text{g/L}$ )          |
|  | INFERRED TCE ISOPLETH ( $\mu\text{g/L}$ )      |
| $\mu\text{g/L}$   | MICROGRAMS PER LITER                           |
|  | 1998 GROUNDWATER GRAB SAMPLE LOCATION          |
| UST   | UNDERGROUND STORAGE TANK                       |
|  | SEEP LOCATION                                  |

## NOTES

1. SEEP 1 WAS IDENTIFIED DURING AN OCTOBER 2000 SITE INSPECTION.
2. SEEPS 2 AND 3 WERE IDENTIFIED DURING A SEPTEMBER 2008 SITE INSPECTION.

## REFERENCES

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES ARE BASED ON A COMPILATION OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.

SOLID WASTE MANAGEMENT UNITS (SWMUs)		AREAS OF CONCERN	
SWMU #	DESCRIPTION	AOC #	DESCRIPTION
①	INCINERATOR (REMOVED)	①	SOIL IN BASEMENT OF BUILDING
②	5,000-GALLON ABOVE GROUND WASTE METHANOL/ACETONE TANK	②	TWO 4,800-GALLON METHANOL USTs (REMOVED)
* ③	CONTAINER STORAGE AREA	③	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
④	CONTAINER STORAGE AREA	④	FUEL OIL/MOTOR OIL IN SOIL BENEATH ROADWAY
⑤	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)	⑤	TWO 20,000-GALLON NO.8 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
⑥	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)	⑥	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)
⑦	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)	⑦	750-GALLON NO.2 FUEL OIL UST (REMOVED)
⑧	FORMER NORTHEAST LEACH FIELD	⑧	THREE WASTE SOLVENT USTs (REMOVED)
⑨	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.8 FUEL OIL USTs (ABANDONED IN PLACE)	⑨	LEACH FIELD SEWER LINE
* ⑩	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)	⑩	CHLOROFORM MW-20
⑪	PROCESS/SANITARY SEWER LINE SYSTEM	⑪	BUILDING D FLOOR DRAINS
* ⑫	LOCATED IN BASEMENT	⑫	AERIAL PHOTOGRAPH ANOMALY
* ⑬	REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL USTs		

Project	
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## OFF-SITE SEEP LOCATIONS ORTHO-CLINICAL DIAGNOSTICS

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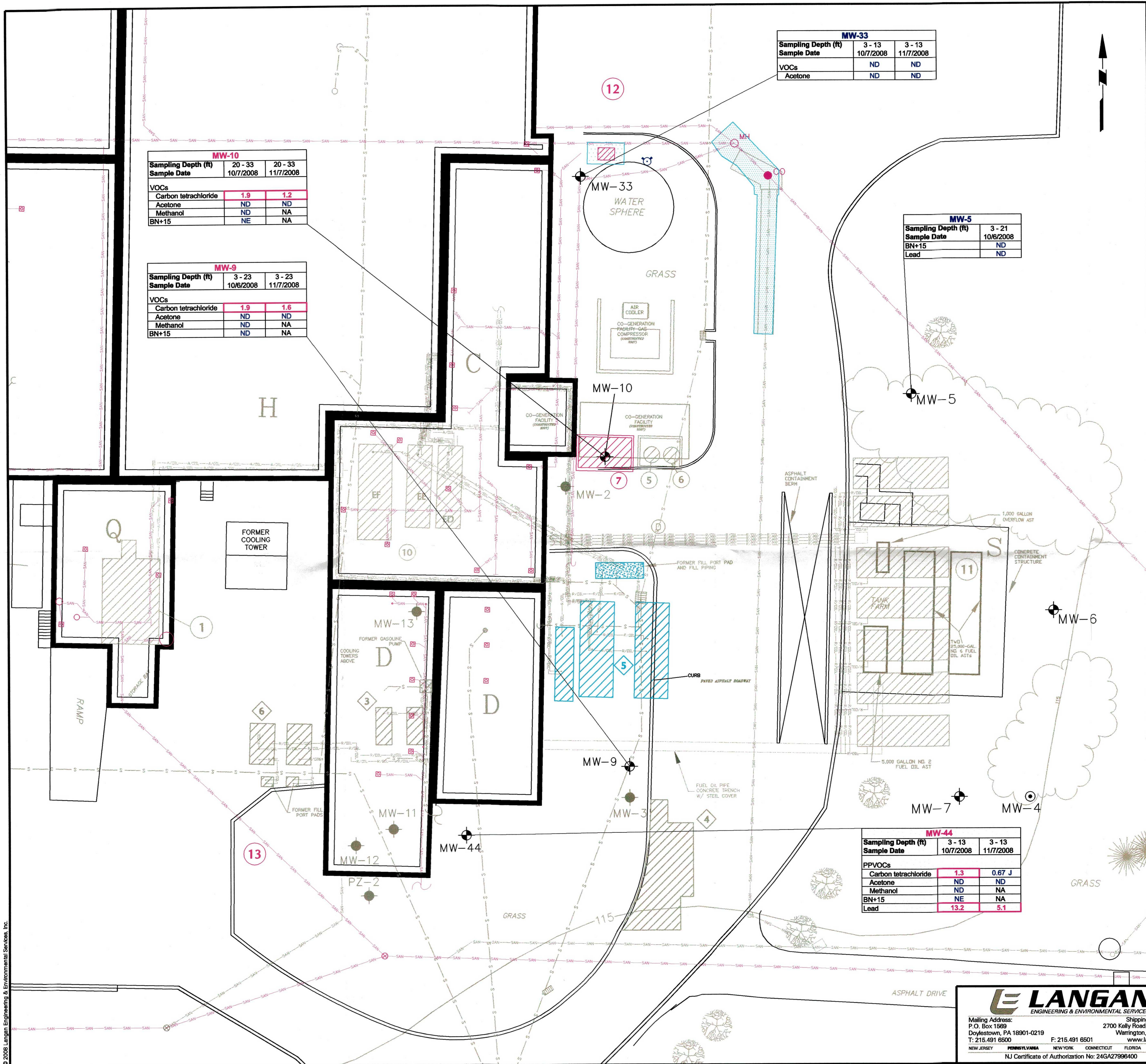
Date	11/18/08
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Scale  
1" = 80'

Figure 10-1

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**LEGEND**

- SAN — BELOW GRADE SANITARY SEWER LINE
- SAN — BELOW GRADE SANITARY SEWER LINE (SWMU-13)
- F/OIL — BELOW GRADE FUEL OIL FILL/SUPPLY LINE (REMOVED)
- A/OIL — BELOW GRADE FUEL OIL FILL/SUPPLY LINE (ABANDONED)
- S — STORM SEWER WITH CATCH BASIN
- — FLOOR DRAIN
- ⊕ — EXISTING SHALLOW MONITORING WELL
- ⊙ — EXISTING DEEP MONITORING WELL
- ⊕ — SEALED MONITORING WELL/PIEZOMETER
- ⑦ ⑩ — SOLID WASTE MANAGEMENT UNIT (SWMU) DESIGNATION
- ⑤ ④ — AREA OF CONCERN (AOC) DESIGNATION
- ▨ — LOCATION OF SWMU
- ▨ — LOCATION OF AOC
- — EDGE OF ASPHALT PAVEMENT
- C — SITE BUILDING LABEL
- — 1995 SOIL EXCAVATION LIMITS
- VOCs — VOLATILE ORGANIC COMPOUNDS
- BN+15 — BASE NEUTRAL INCLUDING 15 TENTATIVELY IDENTIFIED COMPOUNDS
- NE — NO EXCEEDANCES
- NA — NOT ANALYZED
- ND — NOT DETECTED
- ALL CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER LITER (UG/L)

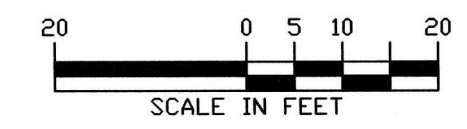
Compound	Higher of PQL and GQS (ug/L)
Acetone	6,000
Carbon tetrachloride	1
Lead	5
Methanol	4,000

PQL: Practical Quantitation Level  
GQS: NJDEP Class IIA Groundwater Quality Standard (7/7/08)

SOLID WASTE MANAGEMENT UNITS (SWMUs)	
SWMU #	DESCRIPTION
①	INCINERATOR (REMOVED)
⑤	750-GALLON ABOVE GROUND WASTE ACETONE TANK (REMOVED)
⑥	750-GALLON ABOVE GROUND WASTE ACID TANK (REMOVED)
⑦	10,000-GALLON UNDERGROUND WASTE METHANOL TANK (REMOVED)
⑩	TWO 10,000-GALLON AND ONE 20,000-GALLON NO.6 FUEL OIL USTs (ABANDONED IN PLACE)
⑪	SEVEN 20,000-GALLON NO.4 FUEL OIL USTs (REMOVED)
⑫	550-GALLON GASOLINE UST (REMOVED)
⑬	PROCESS/SANITARY SEWER LINE SYSTEM
* REPLACED BY TWO 25,000 GALLON #6 FUEL OIL AND ONE 5,000 GALLON #2 FUEL OIL ASTs	
AREAS OF CONCERN	
AOC #	DESCRIPTION
⑤	TWO 2,000-GALLON LEADED GASOLINE USTs (REMOVED)
⑤	FUEL OIL MOTOR OIL IN SOIL BENEATH ROADWAY
⑤	TWO 20,000-GALLON NO.6 AND ONE 5,000-GALLON NO.2 FUEL OIL USTs (REMOVED)
⑤	TWO 5,000-GALLON UNLEADED GASOLINE USTs (REMOVED)

**REFERENCES**

1. APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES AND UTILITIES ARE BASED ON A COMPILED OF FIGURES WITH VARYING DATES AND TITLES PREPARED BY McLAREN/HART, INC. AND ORTHO-CLINICAL DIAGNOSTICS.



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Project: **GROUNDWATER SAMPLING RESULTS FOR SWMU-7, SWMU-12, SWMU-13, AND AOC-5 ORTHO-CLINICAL DIAGNOSTICS**

RARITAN NEW JERSEY

Project No.	Date	Scale	Figure
3568401	11/18/08	1" = 20'	10-2

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